

FLUXWERX®

SPECIFICATION DATA

PORTAL PENDANT 9" (TC1-P09)

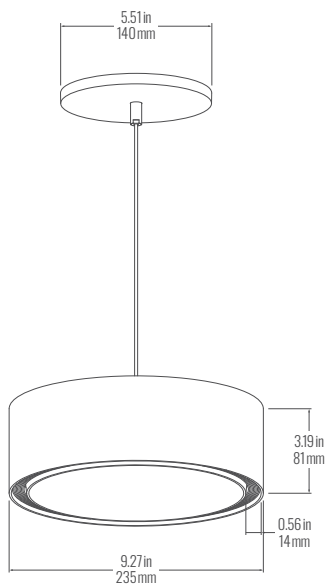


CATALOG

PROJECT

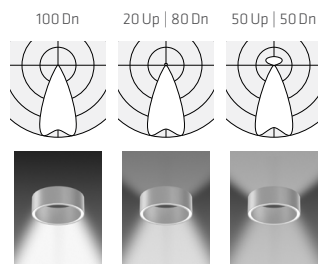
NOTES

DIMENSIONS

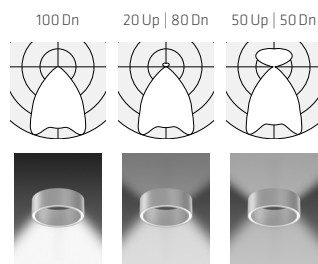


DISTRIBUTIONS

Medium Beam (45°)



Wide Beam (75°)



PERFORMANCE FOCUS

9" Medium Beam, 100% Down, 80 CRI 4000 K

Energy (W)		Light (lm)	Efficacy (lm/W)	Certified
B	12 W	1800	149	ENERGY STAR (100 Dn)
C	16 W	2400	150	
D	21 W	3100	146	TITLE 24 JA8 (90 CRI)
E	28 W	4000	143	
Color Matching (SDCM)		Lumen Maintenance (hr)		
		L80 per TM21	L70 Estimate	
< 2		> 72,000	> 160,000	

Nominal values, refer to back pages for full performance data.

FEATURES

- Portal reimagines directional and general area illumination. Proprietary optics deliver exceptional lighting control from a minimalist aesthetic.
- To support your design vision, both 5.5" & 9" sizes are available in six mounting variants – Recessed, Semi-Recessed, Semi-Recessed Adjustable, Surface, Surface Adjustable & Pendant.
- Light outputs range from 1200 lm (5.5") to 4100 lm (9") with efficacies exceeding 150 lm/W.
- Flexible lighting schemes are enabled by beam angles of 30°, 45° & 65°, as well as 20 | 80 and 50 | 50 direct/indirect pendant distributions.
- White, Metallic Silver & Black powdercoat finishes (plus RAL colors) can be combined to augment the ceiling design.
- 80 and 90 CRI LEDs are available in four CCTs – 2700 K, 3000 K, 3500 K, 4000 K.

Declare.



SPECIFICATION DATA

PORTAL PENDANT 9" (TC1-P09)

ORDER GUIDE

1	2	3	4	5	6	7	8	9	10	11	12	13	OPTIONS	CONTROLS
TC1	– P	09												

1	FAMILY	2	VERSION	3	SIZE	4	CEILING TYPE	5	SUSPENSION
TC1	Portal	–	P Pendant	05	5.5"	D	Drywall	03	Cord ≤ 3 ft
				09	9"	G	Grid	06	Cord ≤ 6 ft
						S	Structure	12	Cord ≤ 12 ft
						R	Remote Driver	Tx	Stem 1–8 ft in 1ft increments
								T9	Stem 18"

6	FINISH	7	BEAM SPREAD	8	DISTRIBUTION	9	CRI	10	CCT	11	ENERGY ²		
FIXTURE FINISH ¹		CANOPY / BASE FINISH		M	Medium (45°)	1	100 Dn	8	80 CRI	27	2700 K	B	12 W
B	Black Powdercoat	B	Black Powdercoat	W	Wide (75°)	2	20 Up 80 Dn	9	90 CRI	30	3000 K	C	16 W
S	Metallic Silver Powdercoat	S	Metallic Silver Powdercoat			5	50 Up 50 Dn			35	3500 K	D	21 W
W	White Powdercoat	W	White Powdercoat							40	4000 K	E	28 W
C	Custom Color (RAL)	C	Custom Color (RAL)										
¹ Cord or stem same as fixture except silver cord + white fixture.											² Nominal input power. Add 4 W for BP and 2 W for 347 V.		

12	DRIVER	13	VOLTAGE	OPTIONS	CONTROLS	
F1	Non-Dim	M	120–277 V	B Battery Pack ⁶	TYPE & LOCATION ⁹	BRAND & PROTOCOL ⁹
F2	0–10 V Dim 3%	1	120 V ⁴	C Chicago Plenum	R Remote Sensor / Controller on Ceiling S Sensor / Controller on Canopy V Controller on Remote Enclosure Y Controller on Canopy / Room side	N1 Acuity nLight Wired ¹⁰
F4	Line Voltage Dim (Fwd/Rev) 3% 120 V	2	277 V ⁴	H Emergency Switch (GTD) ^{6,7}		N2 Acuity nLight Air rIO ¹⁰
E1	eldoLED ECO 0–10 V Dim 1%	3	347 V ⁵	P Oversize J-Box Canopy ⁸		N3 Acuity nLight Air RPP20 ¹⁰
E2	eldoLED SOLO 0–10 V Dim 0.1%					E1 Enlighted Smart Sensor ¹¹
E3	eldoLED ECO DALI-2 DT6 Dim 1%					L1 Lutron Athena Wireless
E4	eldoLED SOLO DALI-2 DT6 Dim 0.1%					M1 Legrand Wattstopper PLUS
L1	Lutron Hi-Lume 1% EcoSystem (LDE1)					V1 Leviton Intellect Wireless
L3	Lutron Hi-Lume Premier 0.1% EcoSystem (PEQO) ³					
³ Max Energy C (16 W).		⁴ Fixed voltage only for (F4) Line Dim Driver or nLight controls. ⁵ 347 V: Remote with transformer.		⁶ BP & GTD: 120–277V only. Remote mounted in Structure ceiling. For Drywall ceiling, use Remote (R) or Structure (S) option. ⁷ GTD not compatible with (F4) Line Dim driver. ⁸ For Structure ceilings.		⁹ Controls selection may be limited by version, protocol or other features – see Controls page.
						¹⁰ nLight: Controller (V,Y) only. ¹¹ Enlighted: Sensor/Controller (R,S) only.

SPECIFICATION DATA PORTAL PENDANT 9" (TC1-P09)

PRODUCT DETAILS



Integrated suspension and power cord under 1/8" diameter

Cantilever suspension arm

Anidolic optical technology creates a homogenous circumference of light



LEVELING

Fixtures are factory pre-leveled and site adjustable.



STEM OPTION

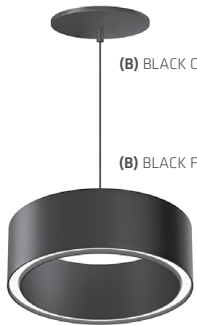
0.4" diameter stem, finish matches fixture.

Length options:
12", 18", 24", 36", 48", 60", 72", 84", 96"

FINISHES

All finishes high temperature powder coated. Cord or rigid stem matched to fixture, except silver cord with white fixture.

(D) DRYWALL, (G) GRID CEILING & (R) REMOTE



(B) BLACK CANOPY

(B) BLACK FIXTURE + CORD



(S) SILVER CANOPY

(S) SILVER FIXTURE + CORD



(W) WHITE CANOPY

(W) WHITE FIXTURE (SILVER CORD)



BLACK, SILVER or WHITE CANOPY

(T#) RIGID STEM

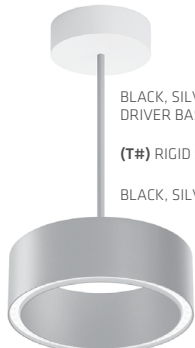
BLACK, SILVER or WHITE FIXTURE + STEM

(S) STRUCTURE CEILING



BLACK, SILVER or WHITE DRIVER BASE

BLACK or SILVER FIXTURE + CORD
WHITE FIXTURE + SILVER CORD



BLACK, SILVER or WHITE DRIVER BASE

(T#) RIGID STEM

BLACK, SILVER or WHITE FIXTURE + STEM



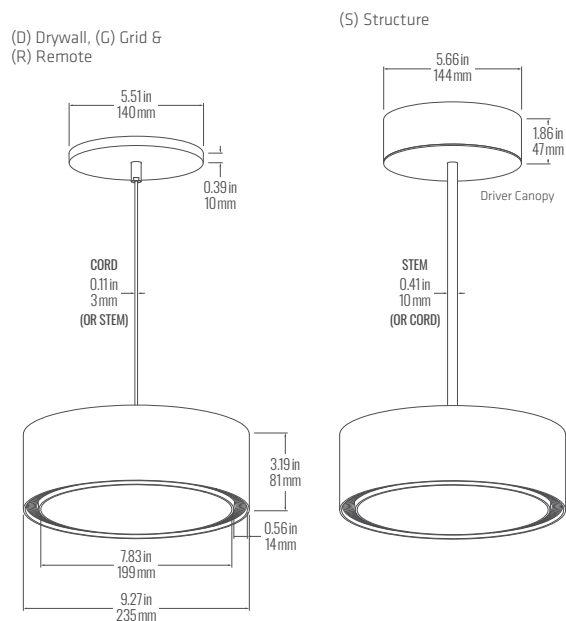
CUSTOM

SPECIFICATION DATA PORTAL PENDANT 9" (TC1-P09)

CEILING INTEGRATION

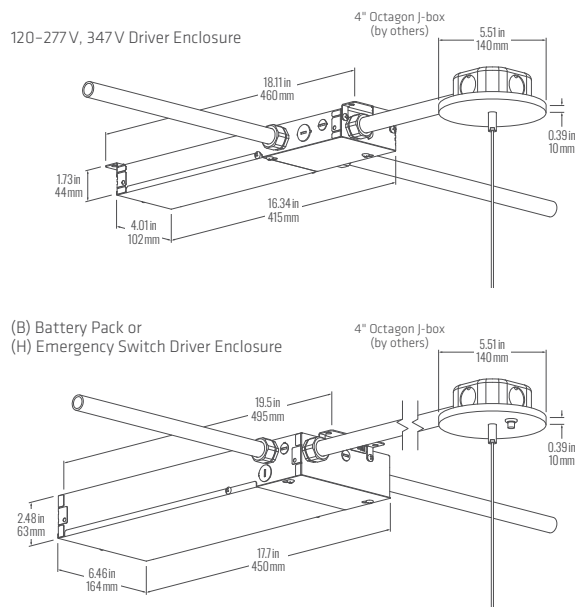
INTEGRATED DRIVER, MOUNTING, POWER FEED & CANOPY/BASE

FIXTURE & CANOPY/BASE DIMENSIONS



(R) REMOTE

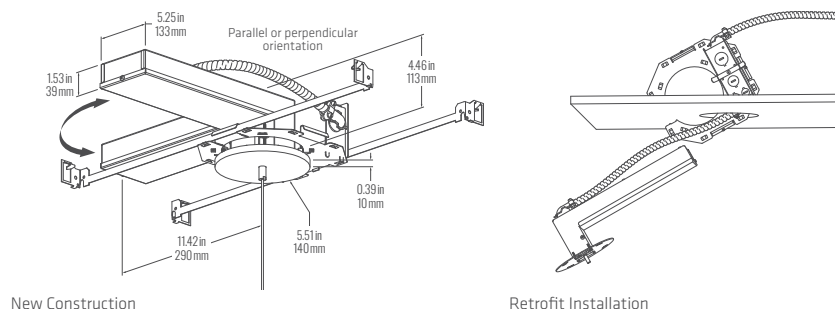
External remote mounted driver for exposed ceiling with conduit or recessed junction box. See Notes for recommended wire gauge.



(D) DRYWALL

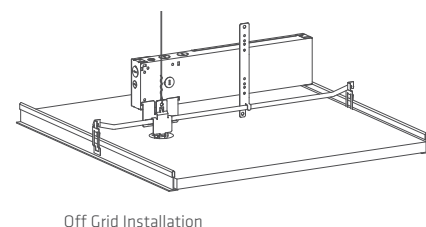
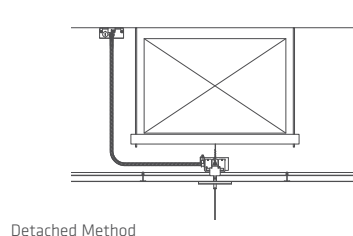
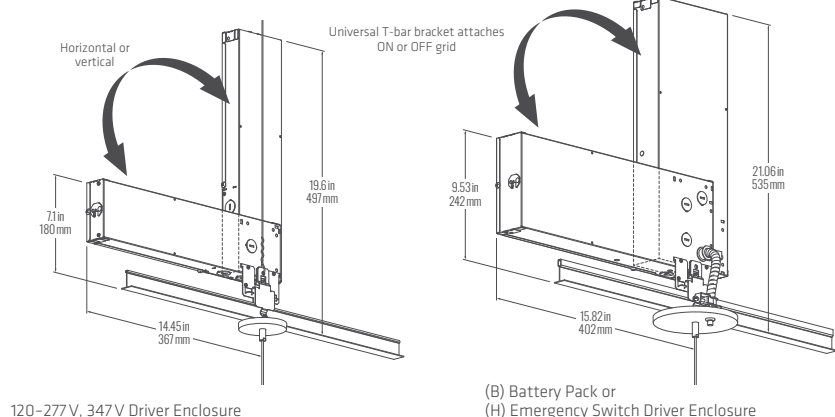
For GWB or panel ceiling < 0.875" (22 mm) thick.

120-277 V, 347 V Driver Enclosure



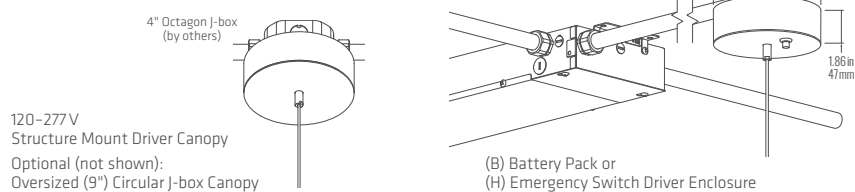
(G) GRID

For accessible ceiling grid < 1.75" (44 mm) tall.



(S) STRUCTURE

For exposed ceiling with conduit or recessed junction box.



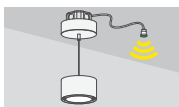
SPECIFICATION DATA
PORTAL PENDANT 9" (TC1-P09)

CONTROLS & SENSORS

LUMINAIRE INTEGRATION



V
Controller,
Enclosure/Plenum Side



R
Sensor,
Remote/on Ceiling



Y
Controller,
Canopy/Room Side



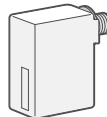
S
Sensor,
on Canopy

Sensor/Controller preinstalled into suspension canopy or ceiling collar (for remote tile or J-box lid installation).
Plenum rated cable whips and connectors for fast field activation.

(N1) Acuity
nLight Wired



nLight wired, digital network.
Model: nPS-80-EZ or nPS-80-EZ-ER
(with **H** - Emergency Switching)

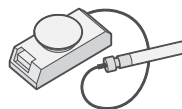


VN1 nLight Wired Controller, Enclosure/Plenum Side

(N2, N3) Acuity
nLight Air



Acuity nLight wireless network
interfaces.
Models: rIO, rPP20

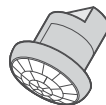


VN2 nLight rIO Controller, Enclosure/Plenum Side
VN3 nLight rPP20 Controller, Enclosure/Plenum Side

(E1) Siemens
Enlighted



Siemens Enlighted wireless smart
sensor-controllers.
Model: SU-5E-CL



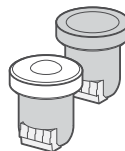
RE1 Enlighted Smart Sensor, Remote/on Ceiling
SE1 Enlighted Smart Sensor, on Canopy

Enlighted in Drywall ceiling requires (R) Remote driver.

(L1) Lutron
Athena



Lutron Athena wireless smart
controllers & sensors.
Models: A-WN-D01-RF, A-WN-D01-OCC
For YL1 and SL1:
Default Athena color to match fixture/canopy color
Canopy Athena
WH WH
SV BK
BK BK
For VL1 and RL1: default WH



VL1 Athena Controller, Enclosure/Plenum Side
YL1 Athena Controller, Canopy/Room Side
RL1 Athena Sensor, Remote/on Ceiling
SL1 Athena Sensor, on Canopy

(M1) Legrand
Wattstopper
PLUS



Wattstopper PLUS wireless smart
controllers & sensors.
Models: ZBHA-CLM, EN-CLM-PIR

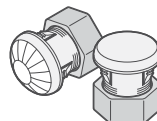


VM1 Wattstopper PLUS Control Module,
Enclosure/Plenum Side
YM1 Wattstopper PLUS Control Module,
Canopy/Room Side
RM1 SensiLUM Sensor, Remote/on Ceiling
SM1 SensiLUM Sensor, on Canopy

(V1) Leviton
Intellect



Leviton Intellect wireless smart
controllers & sensors.
Models: ZL0x0, ZL0x5



VV1 Intellect Controller, Enclosure/Plenum Side
YV1 Intellect Controller, Canopy/Room Side
RV1 Intellect Sensor, Remote/on Ceiling
SV1 Intellect Sensor, on Canopy

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EATON

DISTECH
CONTROLS

CRESTRON

CASAMBI

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SPECIFICATION DATA
PORTAL PENDANT 9" (TC1-P09)

NOTES

CONSTRUCTION

- Architectural grade aluminum and 22 ga. steel housings
- Canopies and driver enclosures suitable for new build or retrofit in grid, GWB, structure or hard lid ceilings.
- White, metallic silver or black textured powdercoat standard finishes

OPTICAL

- Circular anidolic optical structures
- Precision molded high transmittance clear acrylic lenses
- Long life LED system designed for typical TM21 lumen maintenance $\geq$ L80 @ 72,000 h
- Available in 2700 K, 3000 K, 3500 K, 4000 K with CRI $\geq$ 80 and R9 $\geq$ 0, or CRI $\geq$ 90 and R9 $\geq$ 50, all with color accurate binning $\leq$ 2 SDCM

ELECTRICAL

- Low voltage power cord factory pre-installed
- Integral high efficiency drivers for 50–60 Hz, 120–277 V or 347 V
- Power Factor:
 - > 0.87 (Drivers F1, F2, E1-E4)
 - > 0.70 (Driver L1, Energy B-E)
- Total Harmonic Distortion: $< 20\%$ (Drivers F1, F2, E1-E4)
- Dim level: Standard 3%, optional 1% or 0.1%
- Surge Protection: Meets ANSI C82.1 spec and ANSI/IEEE C62.41
- Inrush Current: Meets NEMA 410

EMERGENCY

- Optional Battery Pack delivers 10 W Class 2 rated output for 90 min. See Family Performance for estimated emergency output
- Optional GTD (Generator Transfer Switch), 120–277 V, disables 0–10 V control during emergency for full light output

WIRE GAUGE

- Recommended low voltage wire gauge (AWG) for minimal losses over distance when REMOTE mounting:
 - 30 ft | 18 ga
 - 50 ft | 14 ga
 - 80 ft | 12 ga

ENVIRONMENTAL & CARE

- Designed for use in dry or damp indoor locations with ambient temperatures of 0–30°C (32–86°F)
- The luminaire may be damaged by chemicals such as chlorine, solvents, ammonia, alcohol or sulfur in the area of operation or in cleaning products. Damage from contaminants is not covered under warranty.
- Not suitable for natatorium environments, e.g. swimming pools, hot tubs and saunas.
- Clean only by wiping with a slightly water-damp, soft, clean cloth.

WEIGHT

- Drywall/Grid/Remote:
 - Fixture only 3.4 lbs (1.5 kg), plus driver enclosure & mounting
- Structure:
 - Fixture & driver canopy 5.6 lbs (2.5 kg)

WARRANTY

- 5 year limited warranty on all components and workmanship

INDEPENDENT TESTING

- IESNA LM79
- IESNA LM80 (LED @ 12,000 h)

APPROVALS

- UL Listed (USA + Canada)
- CCEA Chicago Plenum
- IC Rated
- Energy Star (100 Dn Distribution)
- Title 24 JA8-2019 (90 CRI versions)
- Living Building Challenge (LBC) Declared

DRIVERS + EMERGENCY

STANDARD DRIVER OPTIONS	
OPTOTRONIC® ADVANCE 	F1 Non-Dim F2 0–10 V Dim 3% F4 Line Voltage Dim 3% (Forward/Reverse) 120 V
eldoLED®	E1 eldoLED ECO 0–10 V Dim 1% E2 eldoLED SOLO 0–10 V Dim 0.1% E3 eldoLED ECO DALI-2 DT6 Dim 1% E4 eldoLED SOLO DALI-2 DT6 Dim 0.1%
	L1 Lutron Hi-Lume 1% EcoSystem (LDE1) L3 Lutron Hi-Lume Premier 0.1% EcoSystem (PEQ0)

EMERGENCY OPTIONS	
 	B Battery Pack Bodine BSL310 (10 W) H Emergency Switching Functional Devices ESRB Emergency Lighting Relay

Driver and emergency selection may be limited by product or version.
For further options, contact Fluxwerx.

SPECIFICATION DATA
PORTAL PENDANT 9" (TC1-P09)

FAMILY PERFORMANCE

COLOR

80 CRI	4000 K	3500 K	3000 K	2700 K
Color Rendering (CRI)	83	82	82	83
Red Index (R ₉)	5	3	3	5
Fidelity (TM-30 R _f)	84	83	84	86
Gamut (TM-30 R _g)	93	96	94	95
Color Matching (SDCM)	< 2			

90 CRI	4000 K	3500 K	3000 K	2700 K
Color Rendering (CRI)	93	93	93	93
Red Index (R ₉)	59	57	57	57
Fidelity (TM-30 R _f)	90	89	90	91
Gamut (TM-30 R _g)	97	99	97	97
Color Matching (SDCM)	< 2			

Typical colorimetry values.



LUMEN MAINTENANCE

	B 12 W	C 16 W	D 21 W	E 28 W
L80 per TM-21 (hr)	> 72,000			
L70 Estimate (hr)	> 160,000			

OUTPUT MULTIPLIERS

MULTIPLIER	Applies To	
90 CRI	0.86	All 80 CRI
Battery Pack	0.98	Energy B (12 W)

FIXTURE FINISH	Up Dn %	Medium Beam	Wide Beam
Black	100 Dn	0.96	0.95
	20 Up 80 Dn	0.94	0.92
	50 Up 50 Dn	0.90	0.88
Metallic Silver	100 Dn	0.96	0.95
	20 Up 80 Dn	0.95	0.94
	50 Up 50 Dn	0.94	0.92

For 90 CRI, emergency BP or non-white fixtures, use multipliers to scale published Light (lm), Efficacy (lm/W), Intensity (Cd), Luminance (Cd/m²) and IES files.

VERSION PERFORMANCE – WIDE BEAM

W1 – 9" Wide Beam, 100 Dn, White Fixture, 80 CRI

CONFIGURATION			LIGHT & POWER				VISUAL COMFORT			LIGHT DISTRIBUTION
CCT	ENERGY (NOM.)		LIGHT (lm)	POWER (W)	EFFICACY (lm/W)	MAX BEAM INTENSITY (Cd)	MAX INTENSITY 45-90° (Cd)	MAX LUMINANCE 45-90° (Cd/m²)	UGR (4H x 8H)	
TC1-P09-W1840 4000 K	B	12 W	1757	12.24	143.6	1,152	342	>10,000	14.1	Portal Pendant – 9" Wide Beam 100% Dn Beam Angle 77°
	C	16 W	2332	16.11	144.7	1,529	454	>10,000	15.0	
	D	21 W	2993	21.20	141.2	1,962	582	>10,000	15.9	
	E	28 W	3864	27.90	138.5	2,534	752	>10,000	16.8	
TC1-P09-W1835 3500 K	B	12 W	1734	12.24	141.7	1,137	337	>10,000	14.0	
	C	16 W	2301	16.11	142.8	1,509	448	>10,000	15.0	
	D	21 W	2953	21.20	139.3	1,936	575	>10,000	15.9	
	E	28 W	3813	27.90	136.7	2,500	742	>10,000	16.8	
TC1-P09-W1830 3000 K	B	12 W	1673	12.24	136.7	1,097	326	>10,000	13.9	
	C	16 W	2220	16.11	137.8	1,455	432	>10,000	14.9	
	D	21 W	2849	21.20	134.4	1,868	554	>10,000	15.7	
	E	28 W	3678	27.90	131.8	2,412	716	>10,000	16.6	
TC1-P09-W1827 2700 K	B	12 W	1600	12.24	130.7	1,049	311	>10,000	13.7	
	C	16 W	2123	16.11	131.8	1,392	413	>10,000	14.7	
	D	21 W	2725	21.20	128.5	1,787	530	>10,000	15.6	
	E	28 W	3519	27.90	126.1	2,307	685	>10,000	16.5	



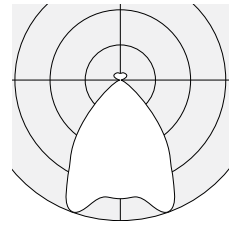
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VERSION PERFORMANCE – WIDE BEAM

W2 – 9" Wide Beam, 20 Up | 80 Dn, White Fixture, 80 CRI

CONFIGURATION			LIGHT & POWER				VISUAL COMFORT		
CCT	ENERGY (NOM.)		LIGHT (lm)	POWER (W)	EFFICACY (lm/W)	MAX BEAM INTENSITY (Cd)	MAX INTENSITY 45-90° (Cd)	MAX LUMINANCE 45-90° (Cd/m²)	UGR (4H x 8H)
TC1-P09-W2840 4000 K	B	12 W	1739	12.24	142.1	988	288	6,480	<10.0
	C	16 W	2364	15.97	148.0	1,342	391	8,810	10.8
	D	21 W	3145	21.08	149.2	1,786	520	>10,000	11.7
	E	28 W	4046	28.05	144.3	2,298	669	>10,000	12.6
TC1-P09-W2835 3500 K	B	12 W	1716	12.24	140.2	975	284	6,400	<10.0
	C	16 W	2333	15.97	146.1	1,325	386	8,690	10.7
	D	21 W	3103	21.08	147.2	1,762	513	>10,000	11.7
	E	28 W	3993	28.05	142.3	2,268	661	>10,000	12.6
TC1-P09-W2830 3000 K	B	12 W	1656	12.24	135.3	940	274	6,170	<10.0
	C	16 W	2250	15.97	140.9	1,278	372	8,390	10.6
	D	21 W	2993	21.08	142.0	1,700	495	>10,000	11.6
	E	28 W	3852	28.05	137.3	2,187	637	>10,000	12.4
TC1-P09-W2827 2700 K	B	12 W	1584	12.24	129.4	899	262	5,900	<10.0
	C	16 W	2153	15.97	134.8	1,222	356	8,020	10.4
	D	21 W	2863	21.08	135.8	1,626	474	>10,000	11.4
	E	28 W	3685	28.05	131.4	2,092	610	>10,000	12.3

LIGHT DISTRIBUTION



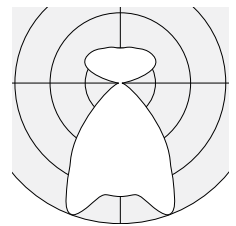
Portal Pendant – 9"
Wide Beam
14% Up | 86% Dn

Beam Angle 77°

W5 – 9" Wide Beam, 50 Up | 50 Dn, White Fixture, 80 CRI

CONFIGURATION			LIGHT & POWER				VISUAL COMFORT		
CCT	ENERGY (NOM.)		LIGHT (lm)	POWER (W)	EFFICACY (lm/W)	MAX BEAM INTENSITY (Cd)	MAX INTENSITY 45-90° (Cd)	MAX LUMINANCE 45-90° (Cd/m²)	UGR (4H x 8H)
TC1-P09-W5840 4000 K	B	12 W	1698	12.24	138.8	597	180	3,900	<10.0
	C	16 W	2308	15.97	144.6	812	245	5,290	<10.0
	D	21 W	3071	21.08	145.7	1,080	326	7,040	<10.0
	E	28 W	3951	27.62	143.1	1,389	420	9,060	<10.0
TC1-P09-W5835 3500 K	B	12 W	1676	12.24	137.0	589	178	3,840	<10.0
	C	16 W	2278	15.97	142.6	801	242	5,220	<10.0
	D	21 W	3030	21.08	143.8	1,065	322	6,950	<10.0
	E	28 W	3899	27.62	141.2	1,371	414	8,940	<10.0
TC1-P09-W5830 3000 K	B	12 W	1617	12.24	132.1	568	172	3,710	<10.0
	C	16 W	2197	15.97	137.6	773	233	5,040	<10.0
	D	21 W	2923	21.08	138.7	1,028	310	6,700	<10.0
	E	28 W	3761	27.62	136.2	1,322	399	8,630	<10.0
TC1-P09-W5827 2700 K	B	12 W	1547	12.24	126.4	544	164	3,550	<10.0
	C	16 W	2102	15.97	131.6	739	223	4,820	<10.0
	D	21 W	2796	21.08	132.6	983	297	6,410	<10.0
	E	28 W	3598	27.62	130.3	1,265	382	8,250	<10.0

LIGHT DISTRIBUTION



Portal Pendant – 9"
Wide Beam
47% Up | 53% Dn

Beam Angle 77°

SPECIFICATION DATA

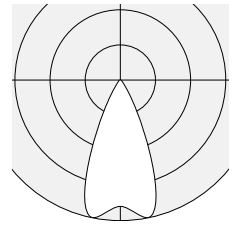
PORTAL PENDANT 9" (TC1-P09)

VERSION PERFORMANCE – MEDIUM BEAM

M1 – 9" Medium Beam, 100 Dn, White Fixture, 80 CRI

CONFIGURATION			LIGHT & POWER				VISUAL COMFORT		
CCT	ENERGY (NOM.)		LIGHT (lm)	POWER (W)	EFFICACY (lm/W)	MAX BEAM INTENSITY (Cd)	MAX INTENSITY 45-90° (Cd)	MAX LUMINANCE 45-90° (Cd/m²)	UGR (4H x 8H)
TC1-P09-M1840 4000 K	B	12 W	1820	12.24	148.7	2,815	83	2,720	11.9
	C	16 W	2415	16.11	149.9	3,736	111	3,610	12.8
	D	21 W	3099	21.20	146.2	4,794	142	4,630	13.7
	E	28 W	4002	27.95	143.2	6,190	183	5,980	14.6
TC1-P09-M1835 3500 K	B	12 W	1796	12.24	146.7	2,778	82	2,680	11.8
	C	16 W	2383	16.11	147.9	3,686	109	3,560	12.8
	D	21 W	3058	21.20	144.3	4,731	140	4,570	13.7
	E	28 W	3949	27.95	141.3	6,108	181	5,900	14.5
TC1-P09-M1830 3000 K	B	12 W	1732	12.24	141.5	2,680	79	2,590	11.7
	C	16 W	2299	16.11	142.7	3,556	105	3,430	12.7
	D	21 W	2950	21.20	139.2	4,563	135	4,410	13.5
	E	28 W	3809	27.95	136.3	5,892	174	5,690	14.4
TC1-P09-M1827 2700 K	B	12 W	1657	12.24	135.4	2,563	76	2,480	11.5
	C	16 W	2199	16.11	136.5	3,402	101	3,280	12.5
	D	21 W	2822	21.20	133.1	4,365	129	4,220	13.4
	E	28 W	3644	27.95	130.4	5,637	167	5,440	14.3

LIGHT DISTRIBUTION



Portal Pendant – 9"
Medium Beam
100% Dn

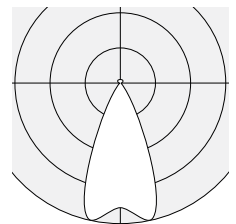
Beam Angle 46°



M2 – 9" Medium Beam, 20 Up | 80 Dn, White Fixture, 80 CRI

CONFIGURATION			LIGHT & POWER				VISUAL COMFORT		
CCT	ENERGY (NOM.)		LIGHT (lm)	POWER (W)	EFFICACY (lm/W)	MAX BEAM INTENSITY (Cd)	MAX INTENSITY 45-90° (Cd)	MAX LUMINANCE 45-90° (Cd/m²)	UGR (4H x 8H)
TC1-P09-M2840 4000 K	B	12 W	1779	12.24	145.3	2,416	63	1,420	<10.0
	C	16 W	2418	15.97	151.4	3,283	85	1,920	<10.0
	D	21 W	3216	21.08	152.6	4,367	114	2,560	<10.0
	E	28 W	4139	28.09	147.3	5,620	146	3,290	<10.0
TC1-P09-M2835 3500 K	B	12 W	1756	12.24	143.4	2,384	62	1,400	<10.0
	C	16 W	2386	15.97	149.4	3,240	84	1,900	<10.0
	D	21 W	3174	21.08	150.6	4,310	112	2,530	<10.0
	E	28 W	4084	28.09	145.4	5,546	144	3,250	<10.0
TC1-P09-M2830 3000 K	B	12 W	1693	12.24	138.4	2,300	60	1,350	<10.0
	C	16 W	2302	15.97	144.1	3,125	81	1,830	<10.0
	D	21 W	3062	21.08	145.2	4,157	108	2,440	<10.0
	E	28 W	3940	28.05	140.5	5,350	139	3,130	<10.0
TC1-P09-M2827 2700 K	B	12 W	1620	12.24	132.4	2,200	57	1,290	<10.0
	C	16 W	2202	15.97	137.9	2,990	78	1,750	<10.0
	D	21 W	2929	21.08	138.9	3,977	103	2,330	<10.0
	E	28 W	3769	28.05	134.4	5,117	133	3,000	<10.0

LIGHT DISTRIBUTION



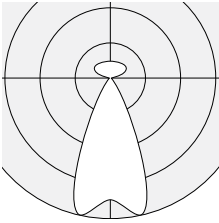
Portal Pendant – 9"
Medium Beam
15% Up | 85% Dn

Beam Angle 46°

SPECIFICATION DATA
PORTAL PENDANT 9" (TC1-P09)

VERSION PERFORMANCE – MEDIUM BEAM

M5 – 9" Medium Beam, 50 Up | 50 Dn, White Fixture, 80 CRI

CONFIGURATION			LIGHT & POWER				VISUAL COMFORT			LIGHT DISTRIBUTION
CCT	ENERGY (NOM.)		LIGHT (lm)	POWER (W)	EFFICACY (lm/W)	MAX BEAM INTENSITY (Cd)	MAX INTENSITY 45-90° (Cd)	MAX LUMINANCE 45-90° (Cd/m²)	UGR (4H x 8H)	
TC1-P09-M5840 4000 K	B	12 W	1772	12.24	144.8	1,408	42	930	<10.0	 Portal Pendant – 9" Medium Beam 48% Up 52% Dn
	C	16 W	2409	15.97	150.8	1,914	57	1,260	<10.0	
	D	21 W	3204	21.08	152.0	2,545	76	1,670	<10.0	
	E	28 W	4122	27.59	149.4	3,275	98	2,150	<10.0	
TC1-P09-M5835 3500 K	B	12 W	1749	12.24	142.9	1,389	42	910	<10.0	
	C	16 W	2377	15.97	148.8	1,888	57	1,240	<10.0	
	D	21 W	3161	21.08	150.0	2,512	75	1,650	<10.0	
	E	28 W	4068	27.59	147.5	3,232	97	2,120	<10.0	
TC1-P09-M5830 3000 K	B	12 W	1687	12.24	137.8	1,340	40	880	<10.0	
	C	16 W	2293	15.97	143.6	1,822	55	1,200	<10.0	
	D	21 W	3050	21.08	144.7	2,423	73	1,590	<10.0	
	E	28 W	3924	28.05	139.9	3,118	94	2,050	<10.0	
TC1-P09-M5827 2700 K	B	12 W	1614	12.24	131.8	1,282	38	840	<10.0	
	C	16 W	2193	15.97	137.3	1,743	52	1,150	<10.0	
	D	21 W	2917	21.08	138.4	2,318	70	1,520	<10.0	
	E	28 W	3754	28.05	133.8	2,983	90	1,960	<10.0	
										Beam Angle 46°

Photometry Reports: 13694183.28 – 50

Photometry baseline established with integrating sphere and goniophotometer results from an independent accredited testing laboratory per IES LM-79, ANSI 78.377. Remaining values scaled from baseline data. Output and power may vary by up to 5%.