

NOMINAL LUMENS	WATTAGE
2200	24W
1800	18W
1200	13W

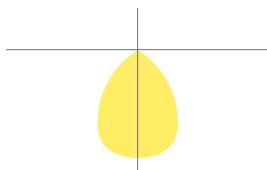
Based on 4000K, 90+ CRI. Actual wattage may vary +/- 5%

FEATURES

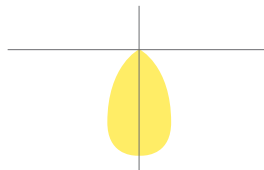
A small profile LED pendant mounted luminaire that delivers optimal lumen output for general illumination, integrating into any design. Available in an array of color temperatures, it can accentuate the full spectrum of cool to warm tones, and is the perfect complement for commercial, retail, hospitality, or high-end residential applications.

LUMENS	1200, 1800, 2200
CCT	30K, 35K
CRI	90+
COLOR QUALITY	2 Step MacAdam Ellipse
DISTRIBUTION	Narrow Spot (15°), Flood (30°), Wide Flood (38°)
MOUNTING	Suspended
FINISH	AWH (Architectural White) ABK (Architectural Black) Custom RAL
DIMMING	DIM10 (0-10V Dimming) DIMTR (Triac dimming)
LIFETIME	L70 at 100,000 Hours
PHOTOMETRIC TESTS	In Accordance with IES LM79-08, LM80 and TM-30, TM-21

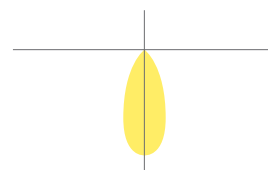
WFL: WIDE FLOOD
Candlepower Distribution Curve



FL: FLOOD
Candlepower Distribution Curve



NS: NARROW SPOT
Candlepower Distribution Curve



Reference IES files for additional distribution curve information.



PERFORMANCE:

Available in two color temperatures 3000K, 3500K.

Crisp White is ideal for retail applications, especially jewelry stores. Our Crisp White technology is designed to accentuate the full spectrum, enhancing cool tones such as blues and greens to be vibrant, and warm tones such as red and orange to be vivid.

Red Glow technology is designed to be used in restaurants and grocery stores, enhancing products in the produce, meat, fish, and poultry departments.

Warm Dim with Smart Dim technology mimics traditional incandescent halogen lighting through dimming. Using Warm Dim, luminaires shift over the black body radiator curve as the light dims, transitioning into the rich amber tones that encourages relaxation. Ideal for hospitality, commercial, and residential applications, it maintains a high lumen output, and comes paired with a high CRI of 90+ that guarantees color consistency within a 2 step MacAdam Ellipse.

CONSTRUCTION:

Post-painted powder coated extruded aluminum body.

OPTICS:

A polycarbonate optical refractor allows for precise beam control and even distribution, with a variety of lumen options. Optics are field changeable and available in NS (Narrow Spot), FL (Flood), and WFL (Wide Flood) options.

FINISH:

Post-painted available in white, black and custom RAL colors.

DIMMING & DRIVER INFORMATION

DIM10 - 0-10V dimming on either MVOLT or 120. Dimmable down to 1% of initial lumens, standard.

DIMTR - Triac & Electronic low voltage dimming, available in 120V.

MOUNTING BRACKET AND SUSPENSION SYSTEM

Ceiling mount bracket provided for direct installation with 3-1/4" to 4" octagonal and square junction box. Pedant mounted option is supplied with a 10ft. adjustable aircraft cable and power cord, which can be field adjusted for desired length. Please consult factory for custom mounting and stem options.

WARRANTY

All Fusion Pendants are designed using a proprietary coolLED Advanced Thermodynamic Design Heat management system is engineered for extremely long life and service period, with a 5-year limited warranty.

LISTING

c-UL-us-Listed

Example: **FPR4-LED-1200L-DIM10-MVOLT-WFL-30K-90-WH**

SERIES	LUMENS/DIMMING	OPTICS	CCT	EMERGENCY	COLOR
FPR4-LED	<input type="checkbox"/> 1200L-DIMTR-120 <input type="checkbox"/> 1200L-DIM10-MVOLT <input type="checkbox"/> 1800L-DIMTR-120 <input type="checkbox"/> 1800L-DIM10-MVOLT <input type="checkbox"/> 2200L-DIMTR-120 <input type="checkbox"/> 2200L-DIM10-MVOLT	<input type="checkbox"/> NS (15°) <input type="checkbox"/> FL (30°) <input type="checkbox"/> WFL (38°)	<input type="checkbox"/> 30K-90 <input type="checkbox"/> 35K-90	<input type="checkbox"/> 0-EMG-LED-10W <input type="checkbox"/> 0-EMG-LED-20W <i>Remote Mount Please consult factory</i>	<input type="checkbox"/> BK(Black) <input type="checkbox"/> WH(White) <i>Custom colors available. Please consult factory</i>

FPR4-LED-1200L-DIM10-MVOLT-NS-40K-90-WH

TEST NO.: **EL0818104**

INPUT WATTS: **13**

LUMENS: **908**

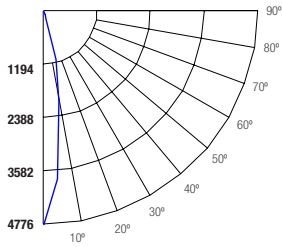
CRI: **90**

EFFICACY: **70**

CCT: **4000K**

SPACING CRITERIA: **0.36**

Candle Power Distribution (Candelas)



Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-20	662.36	75.80	73.00
0-30	779.38	89.20	85.90
0-40	821.56	94.00	90.50
0-60	870.11	99.60	95.90
0-80	898.86	102.90	99.00
0-90	907.51	103.90	100.00

Luminance (Average candela/M²)

Angle in Degrees	Average 0°	Average 45°	Average 90°
45	588	1645	4826
55	39	597	4741
65	101	56	3184
75	265	165	1748
85	1155	951	95

Lumens Per Zone

Zone	Lumens
0-10	320.22
10-20	342.14
20-30	117.02
30-40	42.18
40-50	27.48
50-60	21.08
60-70	16.68
70-80	12.06
80-90	8.66

Candela Tabulation

0	0
4776.19	0
3767.69	5
1109.10	15
87.50	25
10.32	35
3.51	45
0.19	55
0.36	65
0.58	75
0.85	85
0.98	90

Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

Cone of Light			
2	1194	0.7	0.7
4	299	1.3	1.4
6	133	2	2.1
8	74.6	2.7	2.8
10	47.8	3.4	3.5
12	33.2	4	4.2
(FT) Distance to Plane	(FC) Initial Footcandle at Nadir	(FT) Beam Vert. Spread	(FT) Beam Horiz. Spread

BEAM DIA. MEASURED AT 50% OF NADIR F.C.

	RC	80%				70%				50%				30%				10%				0%
	RW	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%			
ROOM CAVITY RATIO	0	124	124	124	124	121	121	121	121	115	115	115	111	111	111	106	106	106	104			
	1	118	116	113	111	116	113	111	109	109	108	106	105	104	103	102	101	100	98			
	2	114	109	106	106	102	111	107	104	101	104	101	99	101	99	97	98	97	95			
	3	109	104	99	102	107	102	98	95	100	96	94	97	94	92	95	93	91	89			
	4	106	99	94	104	91	96	94	90	96	92	89	94	91	88	92	89	87	86			
	5	102	95	90	86	100	94	89	86	92	88	85	91	87	85	89	86	84	83			
	6	99	91	86	83	97	91	86	83	89	85	82	88	84	82	87	84	81	80			
	7	96	88	83	80	94	88	83	80	86	82	79	85	82	79	84	81	79	77			
	8	93	85	81	77	92	85	80	77	84	80	77	83	79	76	82	79	76	75			
	9	90	83	78	75	89	82	78	75	81	77	74	81	77	74	80	76	74	73			
10	88	80	76	73	87	80	76	73	79	75	72	78	75	72	78	74	72	71				

RC - Ceiling Cavity Reflectance

RW - Wall Reflectance