

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: PORTFOLIO

Report Number: P858098

Luminaire Tested: **LD4C45D010 EU4459027 4LBMDSWGPH**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P858098
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2309-186-3)
Test Lab: INNOVATION CENTER
Issue Date: 4/12/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C45D010 EU4459027 4LBMDSWGPH
Description: 4 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBMDSW TRIM WITH GPH FINISH
Light Source: -
Ballast/Driver: -

Summary

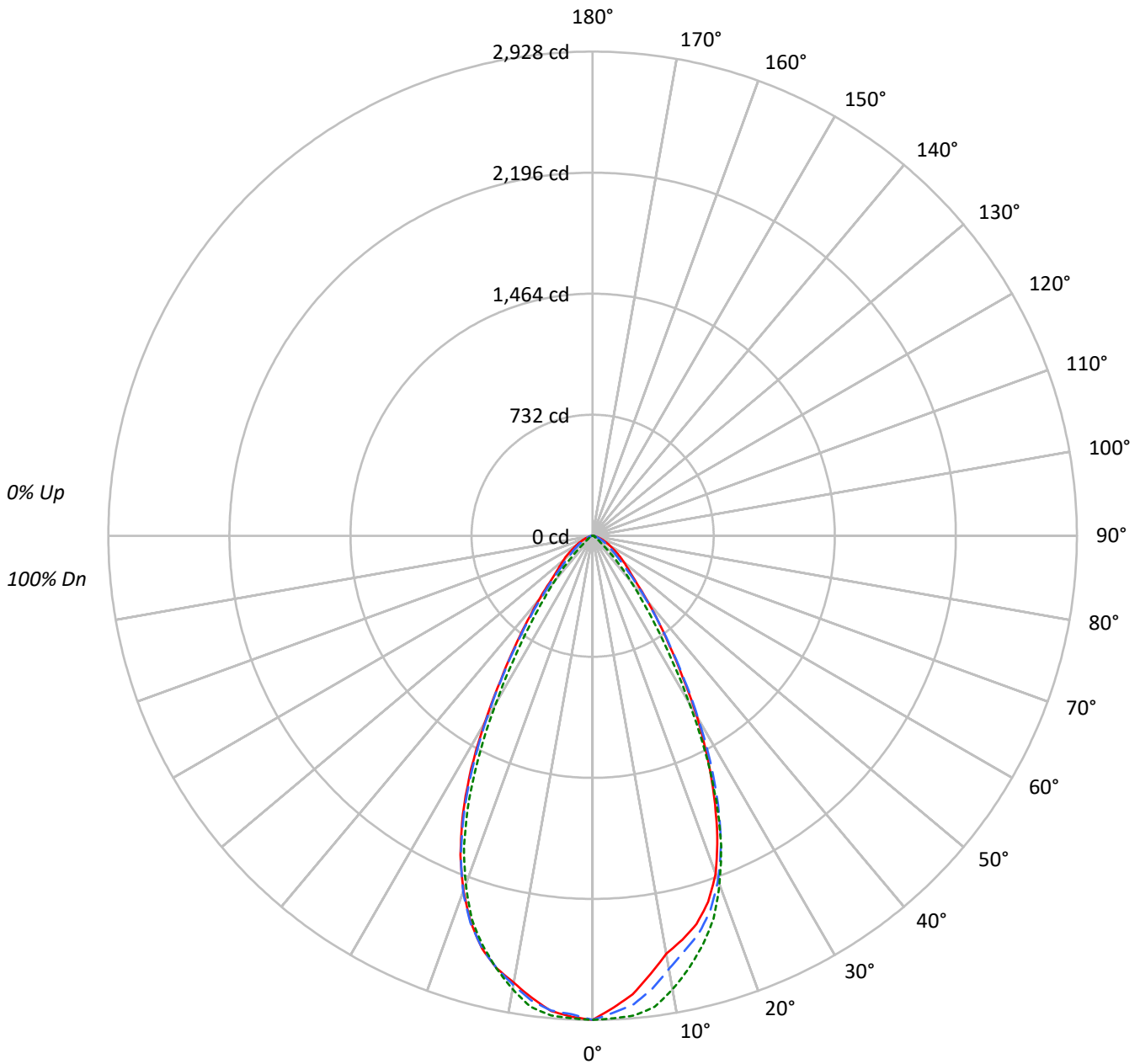
Lumens per Lamp: N/A
Luminaire Lumens: 2665.0 lumens
Efficiency: N/A
Efficacy: 53.7 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 49.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

TEST NUMBER: P858098

CATALOG NUMBER: LD4C45D010 EU4459027 4LBMDSWGPB

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
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	50	30	10	0					
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100				
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92				92				
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85				85				
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78				78				
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	72				72				
5	91	82	75	71	89	81	75	71	79	74	70	77	73	69	76	72	69	67				67				
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	62				62				
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58				58				
8	77	67	61	57	76	67	61	57	66	60	56	65	60	56	64	59	56	55				55				
9	74	63	57	53	72	63	57	53	62	57	53	61	56	53	60	56	53	51				51				
10	70	60	54	50	69	60	54	50	59	53	50	58	53	50	57	53	49	48				48				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	359654	359654	359654
5°	343183	359067	355724
10°	320080	347425	342360
15°	309078	326337	328639
20°	284316	293180	298501
25°	235647	239930	251574
30°	179267	165791	184388
35°	121376	99344	122726
40°	82657	56917	80123
45°	57335	28667	54207
50°	46654	11659	43634
55°	37761	7261	34377
60°	30001	5553	27224
65°	23663	4593	21017
70°	17852	4059	16236
75°	12864	3228	11819
80°	9622	3184	7995
85°	6343	3242	6343



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	269.2	10.1
10°-20°	707.2	26.5
20°-30°	811.4	30.4
30°-40°	492.9	18.5
40°-50°	211.2	7.9
50°-60°	101.3	3.8
60°-70°	49.3	1.8
70°-80°	18.3	0.7
80°-90°	4.2	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1787.7	67.1
0°-40°	2280.6	85.6
0°-60°	2593.2	97.3
0°-90°	2665.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2665.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2928	2928	2928	2928	2928	
5°	2783	2844	2912	2882	2884	259
15°	2430	2487	2566	2582	2584	677
25°	1738	1795	1770	1838	1856	789
35°	809	821	662	800	818	519
45°	330	294	165	264	312	268
55°	176	131	34	118	160	159
65°	81	54	16	50	72	83
75°	27	18	7	16	25	30
85°	4	4	2	2	4	6
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2927.5	2927.5	2927.5	2927.5	2927.5	2927.5	2927.5	2927.5	2927.5
2.5°	2857.4	2889.0	2886.8	2913.9	2920.7	2913.9	2895.8	2913.9	2911.6
5°	2782.8	2819.0	2843.8	2889.0	2911.6	2907.1	2882.3	2886.8	2884.5
7.5°	2674.3	2719.5	2762.4	2830.3	2873.2	2870.9	2834.8	2828.0	2819.0
10°	2565.8	2608.7	2658.5	2728.5	2785.0	2794.1	2757.9	2748.9	2744.4
12.5°	2502.5	2536.4	2570.3	2631.3	2681.1	2699.1	2678.8	2681.1	2678.8
15°	2430.1	2464.0	2486.6	2531.9	2565.8	2590.6	2581.6	2595.2	2583.9
17.5°	2321.6	2362.3	2371.4	2405.3	2430.1	2446.0	2455.0	2468.6	2450.5
20°	2174.7	2206.3	2217.6	2231.2	2242.5	2262.9	2290.0	2303.5	2283.2
22.5°	1969.0	2030.0	2027.7	2021.0	2032.3	2039.1	2082.0	2104.6	2088.8
25°	1738.4	1801.7	1794.9	1767.8	1770.0	1783.6	1837.9	1867.2	1855.9
27.5°	1496.5	1555.3	1539.5	1487.5	1473.9	1494.2	1564.3	1598.2	1591.5
30°	1263.7	1302.1	1277.2	1184.5	1168.7	1193.6	1284.0	1317.9	1299.8
32.5°	1012.7	1042.1	1030.8	917.8	890.7	915.5	1021.8	1053.4	1033.1
35°	809.3	836.4	820.6	687.2	662.4	689.5	800.2	836.4	818.3
37.5°	648.8	669.1	648.8	506.4	483.8	510.9	617.1	664.6	642.0
40°	515.4	531.2	504.1	373.0	354.9	368.5	467.9	515.4	499.6
42.5°	406.9	418.2	388.8	273.5	253.2	271.3	352.7	395.6	386.6
45°	330.0	330.0	293.9	189.9	165.0	183.1	264.5	309.7	312.0
47.5°	282.6	275.8	230.6	126.6	94.9	119.8	210.2	257.7	264.5
50°	244.1	235.1	189.9	92.7	61.0	85.9	174.1	221.5	228.3
52.5°	210.2	203.5	158.2	72.3	43.0	65.6	146.9	192.2	198.9
55°	176.3	171.8	131.1	56.5	33.9	49.7	117.6	156.0	160.5
57.5°	144.7	137.9	106.2	47.5	27.1	40.7	97.2	128.9	133.4
60°	122.1	115.3	85.9	38.4	22.6	31.6	79.1	106.2	110.8
62.5°	101.7	94.9	70.1	31.6	18.1	27.1	63.3	85.9	90.4
65°	81.4	76.9	54.3	24.9	15.8	20.3	49.7	67.8	72.3
67.5°	65.6	61.0	43.0	20.3	13.6	15.8	38.4	54.3	58.8
70°	49.7	45.2	31.6	15.8	11.3	13.6	29.4	40.7	45.2
72.5°	36.2	33.9	24.9	13.6	9.0	11.3	20.3	29.4	33.9
75°	27.1	24.9	18.1	9.0	6.8	9.0	15.8	22.6	24.9
77.5°	18.1	18.1	13.6	6.8	6.8	6.8	11.3	15.8	15.8
80°	13.6	11.3	9.0	4.5	4.5	4.5	6.8	11.3	11.3
82.5°	9.0	6.8	6.8	4.5	4.5	4.5	4.5	6.8	6.8
85°	4.5	4.5	4.5	2.3	2.3	2.3	2.3	4.5	4.5
87.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)