

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: P799716

Luminaire Tested: **LD6C45D010 EU6459027 6LBMDDWWH**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P799716
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2309-186-6)
Test Lab: INNOVATION CENTER
Issue Date: 4/12/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD6C45D010 EU6459027 6LBMDDWWH
Description: 6 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 6LBMDDW TRIM WITH WH FINISH
Light Source: -
Ballast/Driver: -

Summary

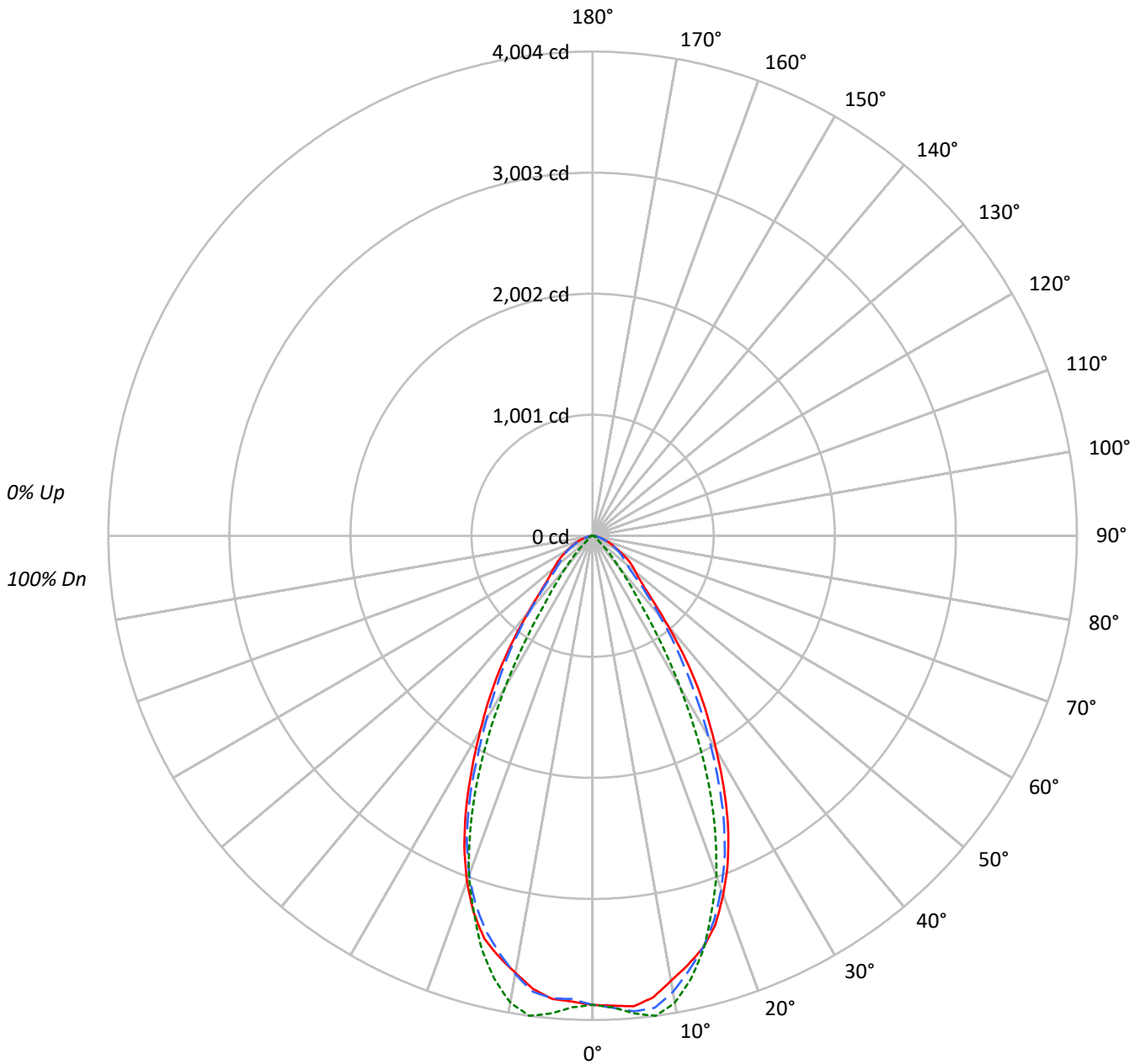
Lumens per Lamp: N/A
Luminaire Lumens: 3950.0 lumens
Efficiency: N/A
Efficacy: 79.6 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.87 / 0.88
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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

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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	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	112	109	106	104	110	107	105	102	103	101	99	99	98	96	96	94	93	91					91			
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	83					83			
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76					76			
4	94	85	79	74	92	84	78	74	82	77	73	80	76	72	78	74	71	70					70			
5	89	79	73	68	87	78	72	68	76	71	67	75	70	66	73	69	66	64					64			
6	84	74	67	62	82	73	67	62	71	66	62	70	65	61	69	64	61	59					59			
7	79	69	62	58	78	68	62	58	67	61	57	66	61	57	65	60	57	55					55			
8	75	65	58	54	74	64	58	54	63	57	53	62	57	53	61	56	53	51					51			
9	71	61	55	50	70	60	54	50	59	54	50	58	53	50	58	53	50	48					48			
10	68	57	51	47	67	57	51	47	56	51	47	55	50	47	55	50	47	45					45			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	212697	212697	212697
5°	214924	218181	211556
10°	207962	218177	204333
15°	200154	200938	195898
20°	184209	174543	177302
25°	160316	137639	149337
30°	129298	91444	117303
35°	100244	47147	88091
40°	68779	24431	59318
45°	47121	12242	41617
50°	39214	5219	35683
55°	35268	4530	31875
60°	27914	4331	26610
65°	23037	3840	22778
70°	18657	3478	18657
75°	13789	3770	14636
80°	8113	3125	8713
85°	6227	3711	6227



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	369.3	9.4
10°-20°	969.4	24.5
20°-30°	1106.5	28.0
30°-40°	733.8	18.6
40°-50°	353.9	9.0
50°-60°	217.7	5.5
60°-70°	131.7	3.3
70°-80°	55.4	1.4
80°-90°	12.2	0.3
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°	2445.2	61.9
0°-40°	3179.0	80.5
0°-60°	3750.6	95.0
0°-90°	3950.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3950.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3880	3880	3880	3880	3880	
5°	3906	3947	3965	3838	3844	367
15°	3527	3527	3540	3390	3452	983
25°	2650	2562	2276	2408	2469	1202
35°	1498	1320	704	1232	1316	926
45°	608	533	158	497	537	496
55°	369	300	47	300	334	324
65°	178	170	30	160	176	178
75°	65	65	18	61	69	70
85°	10	14	6	10	10	13
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°	3879.9	3879.9	3879.9	3879.9	3879.9	3879.9	3879.9	3879.9	3879.9
2.5°	3889.8	3895.7	3907.6	3909.5	3903.6	3866.1	3834.6	3846.4	3856.3
5°	3905.6	3917.4	3947.0	3974.7	3964.8	3901.7	3838.5	3836.5	3844.4
7.5°	3848.4	3876.0	3937.2	4006.2	4004.3	3895.7	3803.0	3779.3	3779.3
10°	3735.9	3761.5	3828.6	3921.4	3919.4	3783.2	3680.6	3668.8	3670.7
12.5°	3635.2	3647.1	3680.6	3753.6	3753.6	3619.4	3540.5	3552.3	3568.1
15°	3526.7	3534.6	3526.7	3550.4	3540.5	3430.0	3390.5	3428.0	3451.7
17.5°	3372.7	3376.7	3335.3	3303.7	3266.2	3197.1	3207.0	3262.2	3268.2
20°	3157.6	3183.3	3108.3	3027.4	2991.9	2926.7	2982.0	3043.2	3039.2
22.5°	2920.8	2950.4	2853.7	2719.5	2646.5	2620.8	2719.5	2774.8	2772.8
25°	2650.4	2672.1	2561.6	2374.1	2275.5	2271.5	2407.7	2464.9	2468.9
27.5°	2346.5	2354.4	2230.1	1985.4	1863.0	1892.6	2064.3	2143.2	2153.1
30°	2042.6	2038.6	1910.4	1606.4	1444.6	1525.5	1756.4	1843.3	1853.1
32.5°	1764.3	1752.5	1606.4	1243.3	1049.9	1170.3	1474.2	1565.0	1580.8
35°	1497.9	1478.2	1320.3	919.7	704.5	884.1	1231.5	1310.4	1316.3
37.5°	1219.6	1209.8	1085.4	688.8	491.4	671.0	1004.5	1061.8	1055.8
40°	961.1	961.1	858.5	511.1	341.4	499.3	795.3	846.6	828.9
42.5°	753.9	763.8	676.9	376.9	242.7	371.0	629.6	676.9	657.2
45°	607.8	607.8	532.9	280.2	157.9	276.3	497.3	540.7	536.8
47.5°	515.1	507.2	432.2	205.2	86.8	207.2	418.4	471.7	469.7
50°	459.8	448.0	371.0	161.8	61.2	171.7	367.1	416.4	418.4
52.5°	416.4	398.7	333.5	144.1	53.3	150.0	333.5	373.0	373.0
55°	369.0	359.2	300.0	128.3	47.4	134.2	300.0	335.5	333.5
57.5°	311.8	309.8	268.4	116.4	43.4	118.4	268.4	290.1	282.2
60°	254.6	262.5	232.9	104.6	39.5	106.6	228.9	246.7	242.7
62.5°	213.1	223.0	203.3	92.8	33.5	94.7	193.4	211.2	207.2
65°	177.6	185.5	169.7	78.9	29.6	78.9	159.9	175.6	175.6
67.5°	146.0	152.0	140.1	65.1	25.7	65.1	130.3	144.1	146.0
70°	116.4	120.4	110.5	51.3	21.7	53.3	102.6	116.4	116.4
72.5°	90.8	92.8	86.8	41.4	19.7	41.4	78.9	90.8	90.8
75°	65.1	69.1	65.1	31.6	17.8	31.6	61.2	67.1	69.1
77.5°	37.5	47.4	47.4	25.7	13.8	23.7	43.4	45.4	45.4
80°	25.7	29.6	33.5	17.8	9.9	17.8	27.6	29.6	27.6
82.5°	17.8	19.7	19.7	11.8	7.9	11.8	17.8	19.7	17.8
85°	9.9	13.8	13.8	9.9	5.9	7.9	9.9	11.8	9.9
87.5°	5.9	7.9	9.9	7.9	5.9	5.9	5.9	5.9	3.9
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)