

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: P799759

Luminaire Tested: **LD6C45D010 EU6459040 6LBMDSWWMH**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P799759
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2309-186-5)
Test Lab: INNOVATION CENTER
Issue Date: 4/12/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD6C45D010 EU6459040 6LBMDSWWMH
Description: 6 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 6LBMDSW TRIM WITH WMH FINISH
Light Source: -
Ballast/Driver: -

Summary

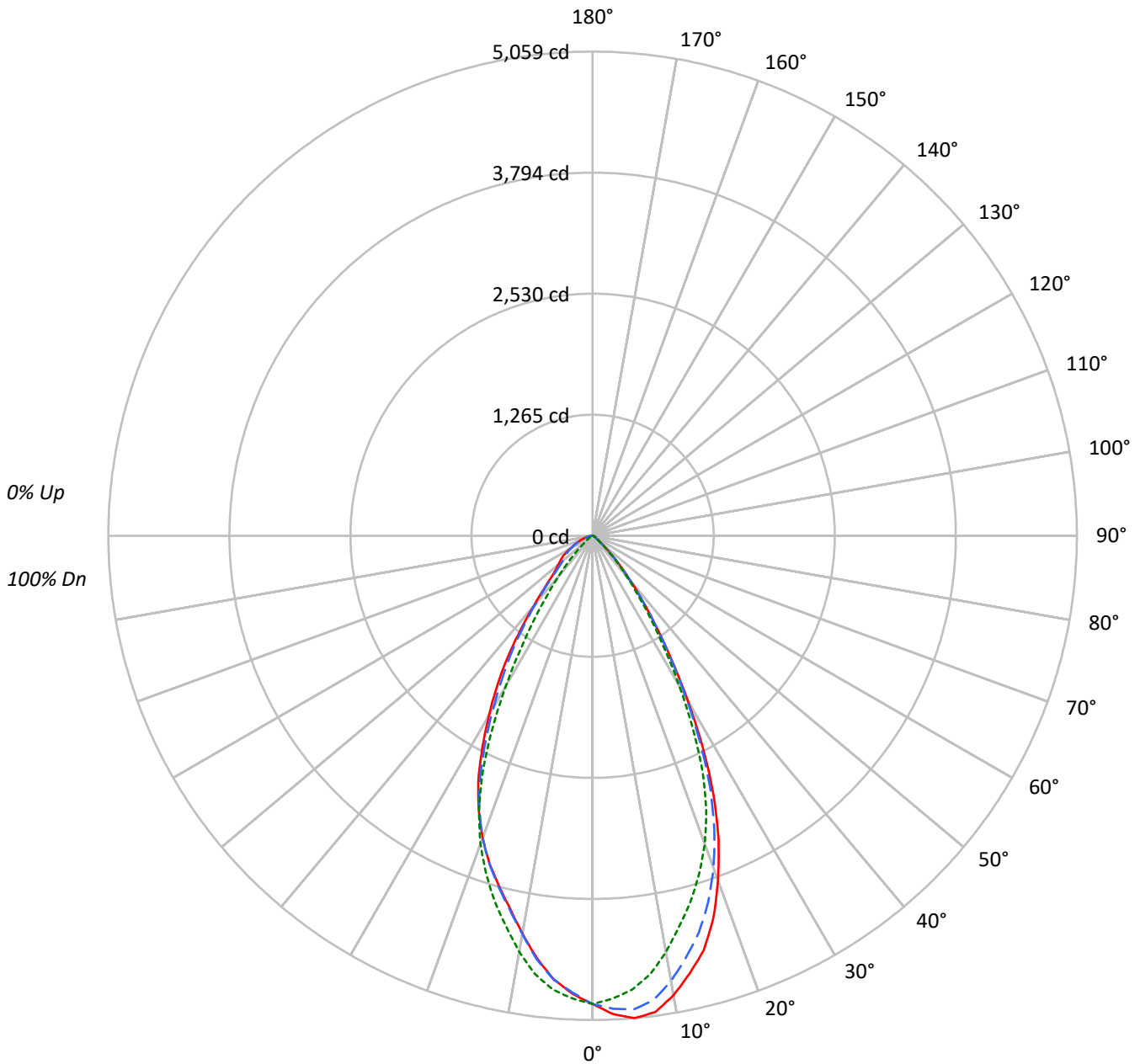
Lumens per Lamp: N/A
Luminaire Lumens: 4212.0 lumens
Efficiency: N/A
Efficacy: 84.9 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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	113	110	107	105	110	108	105	103	104	102	100	100	98	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	87	81	77	84	80	76	82	78	75	80	77	74	73					73			
5	91	82	76	71	89	81	75	71	79	74	70	77	73	70	76	72	69	67					67			
6	86	77	70	66	84	76	70	66	74	69	65	73	68	65	71	67	64	63					63			
7	82	72	66	61	80	71	65	61	70	65	61	69	64	60	68	63	60	59					59			
8	78	68	61	57	76	67	61	57	66	61	57	65	60	57	64	60	56	55					55			
9	74	64	58	54	73	63	58	54	62	57	53	61	57	53	61	56	53	52					52			
10	70	60	54	50	69	60	54	50	59	54	50	58	53	50	58	53	50	49					49			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	268191	268191	268191
5°	278389	261897	255976
10°	271271	245659	234849
15°	254411	224468	214769
20°	223349	199832	196011
25°	180639	164169	170937
30°	125583	114359	136806
35°	77403	70055	103249
40°	43803	39266	68571
45°	21274	20289	46796
50°	8102	8102	39777
55°	4435	5247	36711
60°	3234	4166	30085
65°	2737	3554	24633
70°	2372	3045	20292
75°	2245	3135	17432
80°	1326	2652	12659
85°	1321	5284	11951



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	447.9	10.6
10°-20°	1125.6	26.7
20°-30°	1267.2	30.1
30°-40°	784.6	18.6
40°-50°	312.5	7.4
50°-60°	142.3	3.4
60°-70°	81.8	1.9
70°-80°	38.8	0.9
80°-90°	11.3	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°	2840.7	67.4
0°-40°	3625.3	86.1
0°-60°	4080.1	96.9
0°-90°	4212.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4212.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4892	4892	4892	4892	4892	
5°	5059	4966	4759	4656	4652	476
15°	4483	4289	3955	3795	3784	1240
25°	2986	2906	2714	2782	2826	1342
35°	1157	1150	1047	1458	1543	743
45°	274	274	262	570	604	232
55°	46	44	55	338	384	46
65°	21	19	27	188	190	21
75°	11	11	15	80	82	11
85°	2	2	8	19	19	2
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°	4892.2	4892.2	4892.2	4892.2	4892.2	4892.2	4892.2	4892.2	4892.2
2.5°	5004.0	4957.6	4947.1	4907.0	4839.4	4801.4	4778.2	4761.3	4790.9
5°	5058.9	5008.3	4966.1	4883.7	4759.2	4689.6	4655.8	4628.4	4651.6
7.5°	5018.8	4947.1	4890.1	4776.1	4617.8	4510.2	4463.7	4432.1	4453.2
10°	4873.2	4786.7	4721.2	4586.2	4413.1	4284.4	4227.4	4197.8	4218.9
12.5°	4683.2	4611.5	4512.3	4364.6	4178.8	4043.8	4001.5	3978.3	3986.8
15°	4482.7	4398.3	4288.6	4140.8	3955.1	3820.0	3794.7	3779.9	3784.2
17.5°	4191.5	4109.2	4014.2	3870.7	3699.7	3590.0	3590.0	3579.4	3585.8
20°	3828.5	3784.2	3691.3	3571.0	3425.4	3326.2	3357.8	3347.3	3359.9
22.5°	3435.9	3402.2	3322.0	3222.8	3100.4	3022.3	3091.9	3089.8	3106.7
25°	2986.4	2961.1	2906.2	2821.8	2714.1	2665.6	2781.7	2781.7	2826.0
27.5°	2490.4	2465.1	2427.1	2355.3	2266.7	2251.9	2422.9	2444.0	2492.5
30°	1983.9	1967.0	1945.9	1880.5	1806.6	1834.0	2070.4	2106.3	2161.2
32.5°	1532.2	1521.7	1515.4	1456.3	1390.8	1481.6	1751.7	1798.2	1853.0
35°	1156.6	1133.3	1150.2	1105.9	1046.8	1160.8	1458.4	1498.5	1542.8
37.5°	852.6	835.8	850.5	818.9	766.1	890.6	1171.3	1196.7	1226.2
40°	612.1	597.3	609.9	590.9	548.7	664.8	918.1	945.5	958.2
42.5°	434.8	409.4	422.1	407.3	386.2	500.2	721.8	747.1	751.3
45°	274.4	265.9	274.4	265.9	261.7	371.5	569.8	593.1	603.6
47.5°	166.7	156.2	156.2	152.0	156.2	274.4	470.6	504.4	521.3
50°	95.0	90.8	88.6	86.5	95.0	215.3	407.3	445.3	466.4
52.5°	63.3	61.2	61.2	59.1	69.6	181.5	367.2	401.0	422.1
55°	46.4	44.3	44.3	44.3	54.9	156.2	337.7	365.1	384.1
57.5°	35.9	35.9	35.9	33.8	46.4	133.0	301.8	316.6	331.4
60°	29.5	27.4	27.4	27.4	38.0	114.0	259.6	265.9	274.4
62.5°	23.2	23.2	23.2	23.2	31.7	101.3	223.7	223.7	227.9
65°	21.1	19.0	19.0	19.0	27.4	88.6	187.8	185.7	189.9
67.5°	16.9	16.9	16.9	16.9	23.2	76.0	154.1	152.0	156.2
70°	14.8	14.8	14.8	14.8	19.0	63.3	124.5	122.4	126.6
72.5°	12.7	12.7	12.7	12.7	16.9	52.8	99.2	99.2	101.3
75°	10.6	10.6	10.6	10.6	14.8	40.1	80.2	80.2	82.3
77.5°	8.4	8.4	8.4	8.4	10.6	31.7	61.2	59.1	59.1
80°	4.2	6.3	6.3	6.3	8.4	23.2	44.3	40.1	40.1
82.5°	2.1	4.2	4.2	4.2	8.4	16.9	29.5	27.4	27.4
85°	2.1	2.1	2.1	6.3	8.4	12.7	19.0	19.0	19.0
87.5°	0.0	2.1	4.2	8.4	10.6	10.6	12.7	10.6	10.6
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)