

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: P799747

Luminaire Tested: **LD6C45D010 EU6459035 6LBMDSWWMH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P799747
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 EU6459035 6LBMDSWWMH
Description: 6 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 6LBMDSW TRIM WITH WMH FINISH
Light Source: -
Ballast/Driver: -

Summary

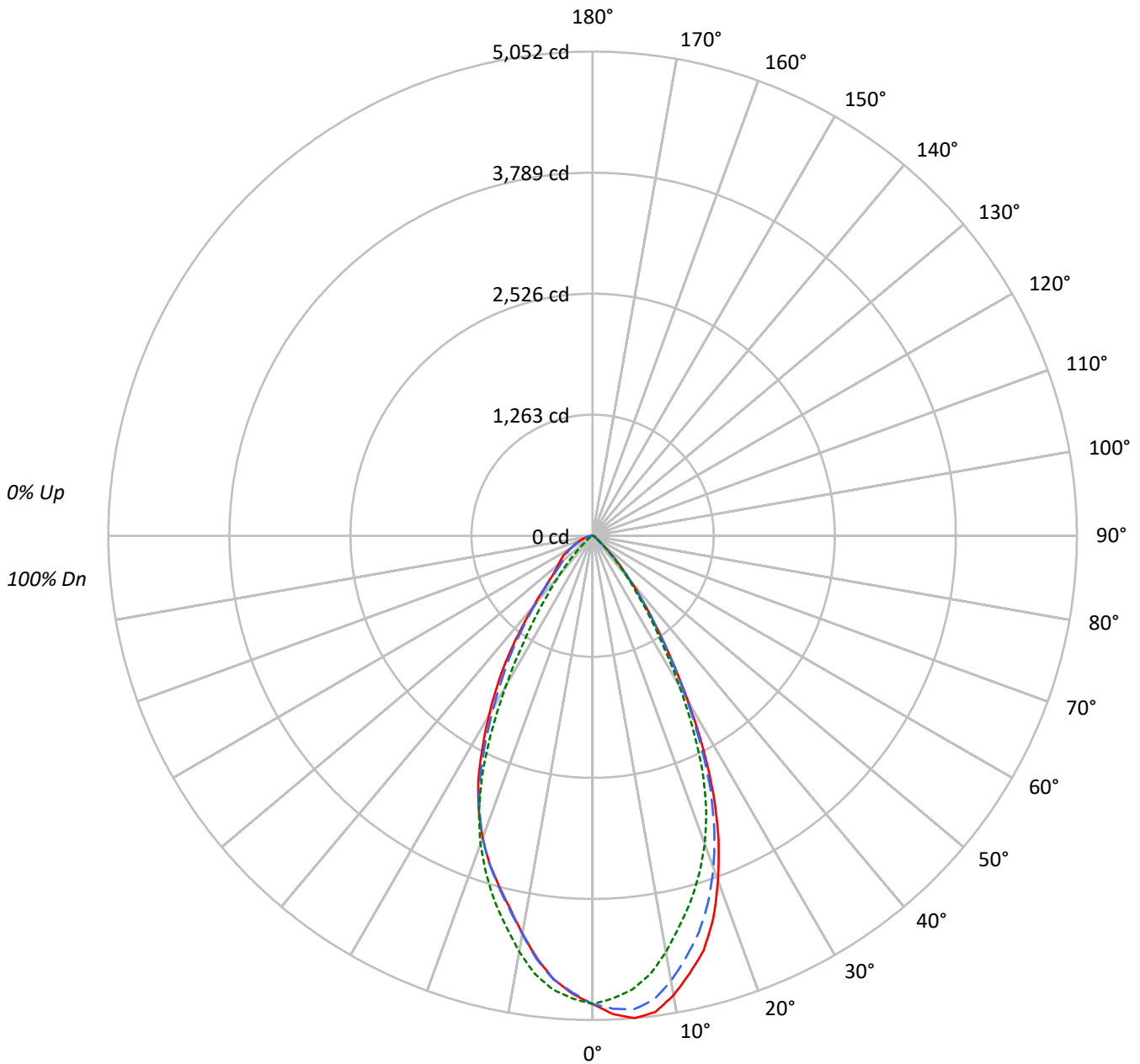
Lumens per Lamp: N/A
Luminaire Lumens: 4206.0 lumens
Efficiency: N/A
Efficacy: 84.8 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 49.6
Input Voltage (V): NR
Input Current (Ain): 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	0					
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100								
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92								
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85								
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78								
4	96	88	82	77	94	87	81	77	84	80	76	82	78	75	80	77	74	73								
5	91	82	76	71	89	81	75	71	79	74	70	77	73	70	76	72	69	67								
6	86	77	70	66	84	76	70	66	74	69	65	73	68	65	71	67	64	63								
7	82	72	66	61	80	71	65	61	70	65	61	69	64	60	68	63	60	59								
8	78	68	61	57	76	67	61	57	66	61	57	65	60	57	64	60	56	55								
9	74	64	58	54	73	63	58	54	62	57	53	61	57	53	61	56	53	52								
10	70	60	54	50	69	60	54	50	59	54	50	58	53	50	58	53	50	49								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	267807	267807	267807
5°	277993	261523	255612
10°	270881	245308	234515
15°	254054	224150	214462
20°	223028	199547	195737
25°	180379	163939	170695
30°	125405	114195	136610
35°	77289	69955	103102
40°	43739	39216	68471
45°	21243	20258	46726
50°	8085	8085	39726
55°	4435	5238	36663
60°	3234	4155	30041
65°	2737	3554	24607
70°	2372	3045	20276
75°	2224	3135	17411
80°	1326	2652	12628
85°	1321	5284	11951



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	447.2	10.6
10°-20°	1124.0	26.7
20°-30°	1265.4	30.1
30°-40°	783.5	18.6
40°-50°	312.0	7.4
50°-60°	142.1	3.4
60°-70°	81.7	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°	2836.6	67.4
0°-40°	3620.2	86.1
0°-60°	4074.3	96.9
0°-90°	4206.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4206.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4885	4885	4885	4885	4885	
5°	5052	4959	4752	4649	4645	476
15°	4476	4282	3950	3789	3779	1238
25°	2982	2902	2710	2778	2822	1341
35°	1155	1149	1045	1456	1541	742
45°	274	274	261	569	603	232
55°	46	44	55	337	384	46
65°	21	19	27	188	190	21
75°	10	10	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°	4885.2	4885.2	4885.2	4885.2	4885.2	4885.2	4885.2	4885.2	4885.2
2.5°	4996.9	4950.5	4940.0	4900.0	4832.5	4794.6	4771.4	4754.5	4784.1
5°	5051.7	5001.1	4959.0	4876.8	4752.4	4682.9	4649.2	4621.8	4645.0
7.5°	5011.7	4940.0	4883.1	4769.3	4611.2	4503.8	4457.4	4425.8	4446.9
10°	4866.2	4779.8	4714.5	4579.6	4406.8	4278.3	4221.3	4191.8	4212.9
12.5°	4676.6	4604.9	4505.9	4358.3	4172.9	4038.0	3995.8	3972.7	3981.1
15°	4476.4	4392.1	4282.5	4134.9	3949.5	3814.6	3789.3	3774.6	3778.8
17.5°	4185.5	4103.3	4008.5	3865.2	3694.5	3584.9	3584.9	3574.3	3580.7
20°	3823.0	3778.8	3686.0	3565.9	3420.5	3321.4	3353.1	3342.5	3355.2
22.5°	3431.0	3397.3	3317.2	3218.2	3095.9	3018.0	3087.5	3085.4	3102.3
25°	2982.1	2956.8	2902.0	2817.7	2710.3	2661.8	2777.7	2777.7	2822.0
27.5°	2486.9	2461.6	2423.6	2352.0	2263.5	2248.7	2419.4	2440.5	2489.0
30°	1981.1	1964.2	1943.1	1877.8	1804.0	1831.4	2067.5	2103.3	2158.1
32.5°	1530.1	1519.5	1513.2	1454.2	1388.9	1479.5	1749.2	1795.6	1850.4
35°	1154.9	1131.7	1148.6	1104.3	1045.3	1159.1	1456.3	1496.3	1540.6
37.5°	851.4	834.6	849.3	817.7	765.0	889.4	1169.7	1195.0	1224.5
40°	611.2	596.4	609.1	590.1	548.0	663.9	916.8	944.2	956.8
42.5°	434.1	408.9	421.5	406.8	385.7	499.5	720.8	746.1	750.3
45°	274.0	265.5	274.0	265.5	261.3	370.9	569.0	592.2	602.7
47.5°	166.5	156.0	156.0	151.7	156.0	274.0	470.0	503.7	520.6
50°	94.8	90.6	88.5	86.4	94.8	215.0	406.8	444.7	465.8
52.5°	63.2	61.1	61.1	59.0	69.5	181.2	366.7	400.4	421.5
55°	46.4	44.3	44.3	44.3	54.8	156.0	337.2	364.6	383.6
57.5°	35.8	35.8	35.8	33.7	46.4	132.8	301.4	316.1	330.9
60°	29.5	27.4	27.4	27.4	37.9	113.8	259.2	265.5	274.0
62.5°	23.2	23.2	23.2	23.2	31.6	101.2	223.4	223.4	227.6
65°	21.1	19.0	19.0	19.0	27.4	88.5	187.6	185.5	189.7
67.5°	16.9	16.9	16.9	16.9	23.2	75.9	153.8	151.7	156.0
70°	14.8	14.8	14.8	14.8	19.0	63.2	124.3	122.2	126.5
72.5°	12.6	12.6	12.6	12.6	16.9	52.7	99.1	99.1	101.2
75°	10.5	10.5	10.5	10.5	14.8	40.0	80.1	80.1	82.2
77.5°	8.4	8.4	8.4	8.4	10.5	31.6	61.1	59.0	59.0
80°	4.2	6.3	6.3	6.3	8.4	23.2	44.3	40.0	40.0
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	12.6	19.0	19.0	19.0
87.5°	0.0	2.1	4.2	8.4	10.5	10.5	12.6	10.5	10.5
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)