

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: P799741

Luminaire Tested: **LD6C45D010 EU6459035 6LBMDDWWMH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P799741
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 EU6459035 6LBMDDWWMH
Description: 6 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 6LBMDDW TRIM WITH WMH FINISH
Light Source: -
Ballast/Driver: -

Summary

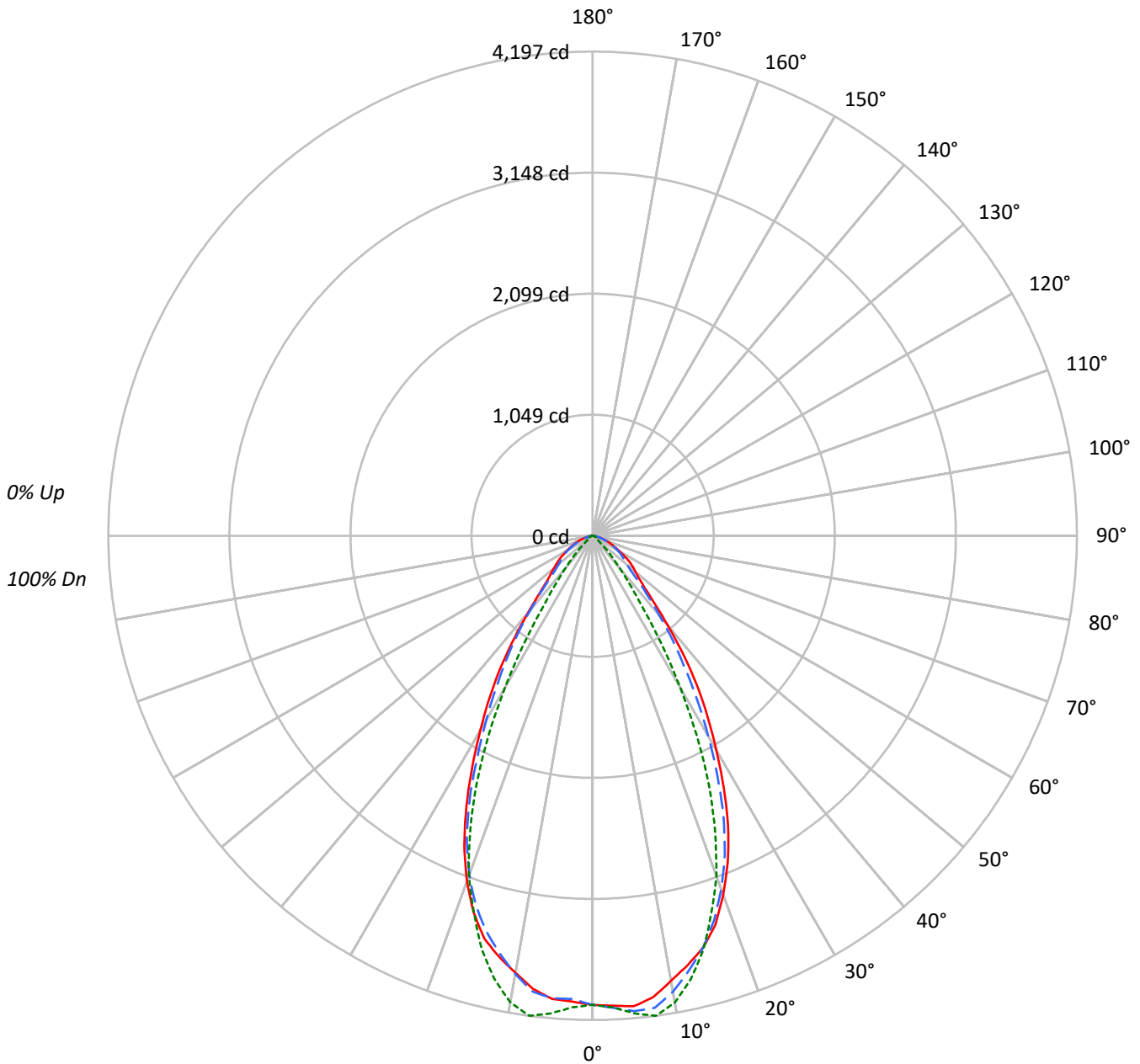
Lumens per Lamp: N/A
Luminaire Lumens: 4140.0 lumens
Efficiency: N/A
Efficacy: 83.5 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.87 / 0.88
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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	0					
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100								
1	112	109	106	104	110	107	105	102	103	101	99	99	98	96	96	94	93	91								
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	83								
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76								
4	94	85	79	74	92	84	78	74	82	77	73	80	76	72	78	74	71	70								
5	89	79	73	68	87	78	72	68	76	71	67	75	70	66	73	69	66	64								
6	84	74	67	62	82	73	67	62	71	66	62	70	65	61	69	64	61	59								
7	79	69	62	58	78	68	62	58	67	61	57	66	61	57	65	60	57	55								
8	75	65	58	54	74	64	58	54	63	57	53	62	57	53	61	56	53	51								
9	71	61	55	50	70	60	54	50	59	54	50	58	53	50	58	53	50	48								
10	68	57	51	47	67	57	51	47	56	51	47	55	50	47	55	50	47	45								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	222932	222932	222932
5°	225264	228675	221731
10°	217965	228670	214163
15°	209780	210603	205319
20°	193071	182938	185831
25°	168028	144256	156517
30°	135515	95844	122949
35°	105069	49416	92334
40°	72085	25605	62166
45°	49393	12831	43617
50°	41099	5467	37397
55°	36969	4741	33413
60°	29252	4539	27893
65°	24153	4021	23881
70°	19555	3654	19555
75°	14467	3940	15335
80°	8492	3252	9155
85°	6479	3900	6479



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	387.1	9.4
10°-20°	1016.0	24.5
20°-30°	1159.7	28.0
30°-40°	769.1	18.6
40°-50°	370.9	9.0
50°-60°	228.2	5.5
60°-70°	138.1	3.3
70°-80°	58.1	1.4
80°-90°	12.8	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°	2562.8	61.9
0°-40°	3331.9	80.5
0°-60°	3931.0	95.0
0°-90°	4140.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4140.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4067	4067	4067	4067	4067	
5°	4094	4137	4156	4023	4029	385
15°	3696	3696	3711	3554	3618	1030
25°	2778	2685	2385	2524	2588	1260
35°	1570	1384	738	1291	1380	971
45°	637	558	166	521	563	520
55°	387	314	50	314	350	340
65°	186	178	31	168	184	187
75°	68	68	19	64	72	73
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°	4066.6	4066.6	4066.6	4066.6	4066.6	4066.6	4066.6	4066.6	4066.6
2.5°	4076.9	4083.1	4095.5	4097.6	4091.4	4052.1	4019.0	4031.4	4041.8
5°	4093.5	4105.9	4136.9	4165.9	4155.5	4089.3	4023.1	4021.1	4029.3
7.5°	4033.5	4062.4	4126.6	4199.0	4196.9	4083.1	3985.9	3961.1	3961.1
10°	3915.6	3942.5	4012.8	4110.0	4107.9	3965.2	3857.7	3845.2	3847.3
12.5°	3810.1	3822.5	3857.7	3934.2	3934.2	3793.5	3710.8	3723.2	3739.8
15°	3696.3	3704.6	3696.3	3721.1	3710.8	3595.0	3553.6	3592.9	3617.7
17.5°	3535.0	3539.1	3495.7	3462.6	3423.3	3350.9	3361.2	3419.1	3425.4
20°	3309.5	3336.4	3257.8	3173.0	3135.8	3067.5	3125.4	3189.5	3185.4
22.5°	3061.3	3092.3	2991.0	2850.3	2773.8	2746.9	2850.3	2908.2	2906.2
25°	2777.9	2800.7	2684.8	2488.3	2384.9	2380.8	2523.5	2583.5	2587.6
27.5°	2459.4	2467.7	2337.3	2080.9	1952.6	1983.6	2163.6	2246.3	2256.7
30°	2140.8	2136.7	2002.3	1683.7	1514.1	1598.9	1840.9	1931.9	1942.3
32.5°	1849.2	1836.8	1683.7	1303.1	1100.4	1226.6	1545.1	1640.3	1656.8
35°	1570.0	1549.3	1383.8	963.9	738.4	926.7	1290.7	1373.5	1379.7
37.5°	1278.3	1268.0	1137.6	721.9	515.0	703.3	1052.8	1112.8	1106.6
40°	1007.3	1007.3	899.8	535.7	357.8	523.3	833.6	887.4	868.7
42.5°	790.1	800.5	709.5	395.1	254.4	388.9	659.8	709.5	688.8
45°	637.1	637.1	558.5	293.7	165.5	289.6	521.2	566.8	562.6
47.5°	539.9	531.6	453.0	215.1	91.0	217.2	438.5	494.4	492.3
50°	481.9	469.5	388.9	169.6	64.1	180.0	384.7	436.4	438.5
52.5°	436.4	417.8	349.6	151.0	55.8	157.2	349.6	390.9	390.9
55°	386.8	376.5	314.4	134.4	49.6	140.7	314.4	351.6	349.6
57.5°	326.8	324.7	281.3	122.0	45.5	124.1	281.3	304.1	295.8
60°	266.8	275.1	244.1	109.6	41.4	111.7	239.9	258.6	254.4
62.5°	223.4	233.7	213.1	97.2	35.2	99.3	202.7	221.3	217.2
65°	186.2	194.4	177.9	82.7	31.0	82.7	167.5	184.1	184.1
67.5°	153.1	159.3	146.9	68.3	26.9	68.3	136.5	151.0	153.1
70°	122.0	126.2	115.8	53.8	22.8	55.8	107.6	122.0	122.0
72.5°	95.1	97.2	91.0	43.4	20.7	43.4	82.7	95.1	95.1
75°	68.3	72.4	68.3	33.1	18.6	33.1	64.1	70.3	72.4
77.5°	39.3	49.6	49.6	26.9	14.5	24.8	45.5	47.6	47.6
80°	26.9	31.0	35.2	18.6	10.3	18.6	29.0	31.0	29.0
82.5°	18.6	20.7	20.7	12.4	8.3	12.4	18.6	20.7	18.6
85°	10.3	14.5	14.5	10.3	6.2	8.3	10.3	12.4	10.3
87.5°	6.2	8.3	10.3	8.3	6.2	6.2	6.2	6.2	4.1
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)