

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: P799755

Luminaire Tested: **LD6C45D010 EU6459040 6LBMDSWH**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P799755
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 6LBMDSWH
Description: 6 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 6LBMDSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

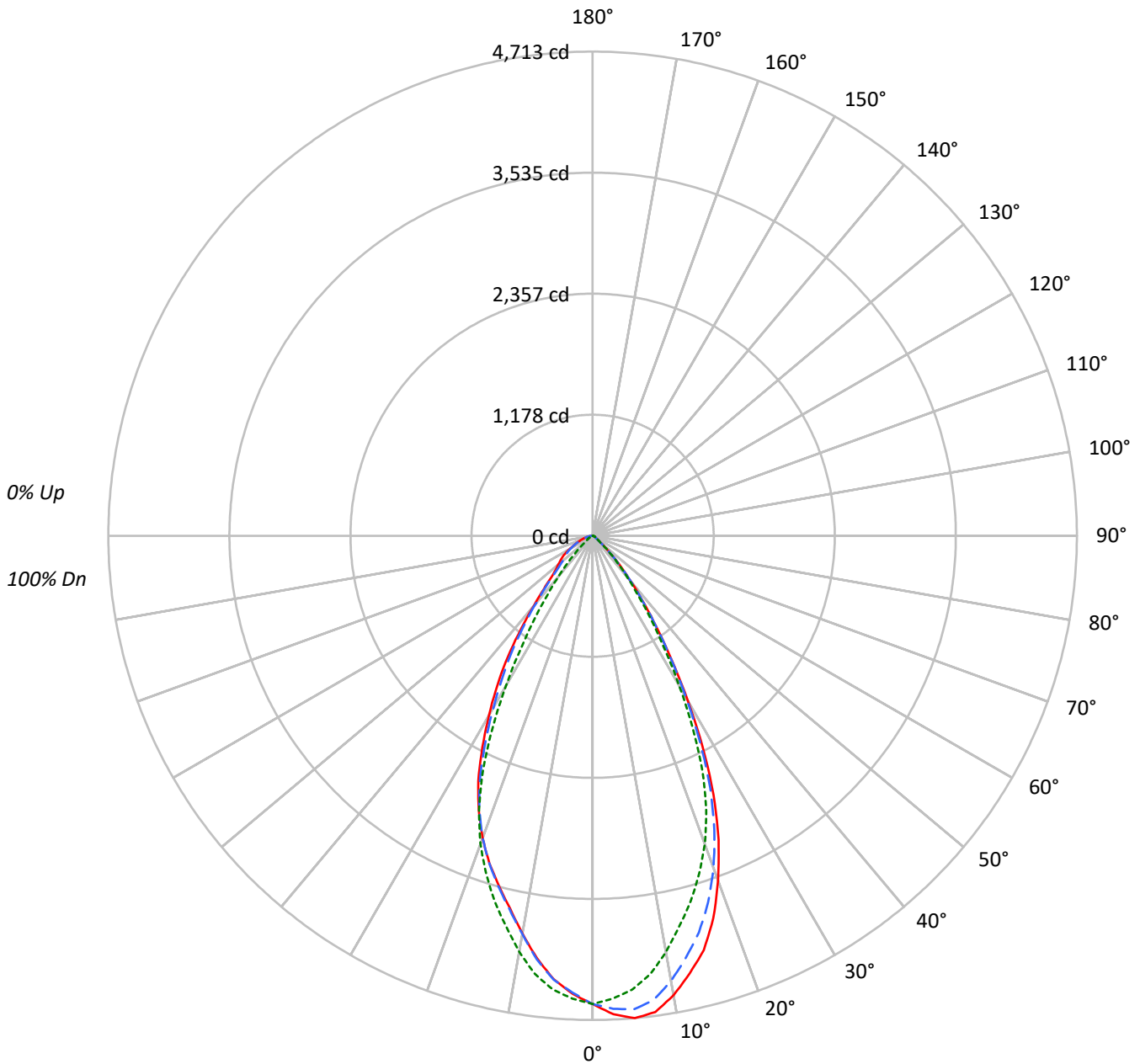
Lumens per Lamp: N/A
Luminaire Lumens: 3924.0 lumens
Efficiency: N/A
Efficacy: 79.1 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	249854	249854	249854
5°	259354	243990	238471
10°	252723	228859	218795
15°	237016	209122	200081
20°	208076	186170	182611
25°	168288	152942	159251
30°	116993	106542	127450
35°	72110	65263	96189
40°	40805	36583	63884
45°	19816	18901	43594
50°	7548	7548	37056
55°	4138	4884	34207
60°	3015	3881	28024
65°	2555	3321	22960
70°	2212	2837	18913
75°	2076	2923	16246
80°	1231	2494	11807
85°	1258	4969	11133



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	417.2	10.6
10°-20°	1048.7	26.7
20°-30°	1180.5	30.1
30°-40°	731.0	18.6
40°-50°	291.1	7.4
50°-60°	132.5	3.4
60°-70°	76.2	1.9
70°-80°	36.2	0.9
80°-90°	10.6	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°	2646.4	67.4
0°-40°	3377.4	86.1
0°-60°	3801.1	96.9
0°-90°	3924.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3924.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4558	4558	4558	4558	4558	
5°	4713	4626	4434	4338	4334	444
15°	4176	3995	3685	3535	3525	1155
25°	2782	2708	2528	2592	2633	1251
35°	1078	1072	975	1359	1437	692
45°	256	256	244	531	562	217
55°	43	41	51	315	358	43
65°	20	18	26	175	177	19
75°	10	10	14	75	77	10
85°	2	2	8	18	18	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°	4557.7	4557.7	4557.7	4557.7	4557.7	4557.7	4557.7	4557.7	4557.7
2.5°	4661.9	4618.6	4608.8	4571.4	4508.5	4473.1	4451.5	4435.8	4463.3
5°	4713.0	4665.8	4626.5	4549.8	4433.8	4368.9	4337.5	4311.9	4333.5
7.5°	4675.6	4608.8	4555.7	4449.5	4302.1	4201.8	4158.5	4129.0	4148.7
10°	4540.0	4459.4	4398.4	4272.6	4111.3	3991.4	3938.3	3910.8	3930.5
12.5°	4363.0	4296.2	4203.8	4066.1	3893.1	3767.3	3727.9	3706.3	3714.2
15°	4176.2	4097.6	3995.3	3857.7	3684.7	3558.8	3535.2	3521.5	3525.4
17.5°	3904.9	3828.2	3739.7	3606.0	3446.8	3344.5	3344.5	3334.7	3340.6
20°	3566.7	3525.4	3438.9	3326.8	3191.2	3098.7	3128.2	3118.4	3130.2
22.5°	3201.0	3169.5	3094.8	3002.4	2888.4	2815.6	2880.5	2878.5	2894.3
25°	2782.2	2758.6	2707.5	2628.8	2528.5	2483.3	2591.5	2591.5	2632.8
27.5°	2320.1	2296.5	2261.1	2194.3	2111.7	2097.9	2257.2	2276.9	2322.1
30°	1848.2	1832.5	1812.8	1751.9	1683.1	1708.6	1928.9	1962.3	2013.4
32.5°	1427.5	1417.6	1411.7	1356.7	1295.7	1380.3	1632.0	1675.2	1726.3
35°	1077.5	1055.9	1071.6	1030.3	975.2	1081.4	1358.7	1396.0	1437.3
37.5°	794.3	778.6	792.4	762.9	713.7	829.7	1091.2	1114.8	1142.4
40°	570.2	556.4	568.2	550.5	511.2	619.4	855.3	880.9	892.7
42.5°	405.0	381.4	393.2	379.5	359.8	466.0	672.4	696.0	700.0
45°	255.6	247.7	255.6	247.7	243.8	346.1	530.9	552.5	562.3
47.5°	155.3	145.5	145.5	141.6	145.5	255.6	438.5	469.9	485.7
50°	88.5	84.5	82.6	80.6	88.5	200.6	379.5	414.9	434.5
52.5°	59.0	57.0	57.0	55.1	64.9	169.1	342.1	373.6	393.2
55°	43.3	41.3	41.3	41.3	51.1	145.5	314.6	340.2	357.9
57.5°	33.4	33.4	33.4	31.5	43.3	123.9	281.2	294.9	308.7
60°	27.5	25.6	25.6	25.6	35.4	106.2	241.8	247.7	255.6
62.5°	21.6	21.6	21.6	21.6	29.5	94.4	208.4	208.4	212.4
65°	19.7	17.7	17.7	17.7	25.6	82.6	175.0	173.0	177.0
67.5°	15.7	15.7	15.7	15.7	21.6	70.8	143.5	141.6	145.5
70°	13.8	13.8	13.8	13.8	17.7	59.0	116.0	114.0	118.0
72.5°	11.8	11.8	11.8	11.8	15.7	49.2	92.4	92.4	94.4
75°	9.8	9.8	9.8	9.8	13.8	37.4	74.7	74.7	76.7
77.5°	7.9	7.9	7.9	7.9	9.8	29.5	57.0	55.1	55.1
80°	3.9	5.9	5.9	5.9	7.9	21.6	41.3	37.4	37.4
82.5°	2.0	3.9	3.9	3.9	7.9	15.7	27.5	25.6	25.6
85°	2.0	2.0	2.0	5.9	7.9	11.8	17.7	17.7	17.7
87.5°	0.0	2.0	3.9	7.9	9.8	9.8	11.8	9.8	9.8
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)