

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: P799714

Luminaire Tested: **LD6C45D010 EU6459027 6LBMDDWLI**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P799714
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 6LBMDDWLI
Description: 6 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 6LBMDDW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

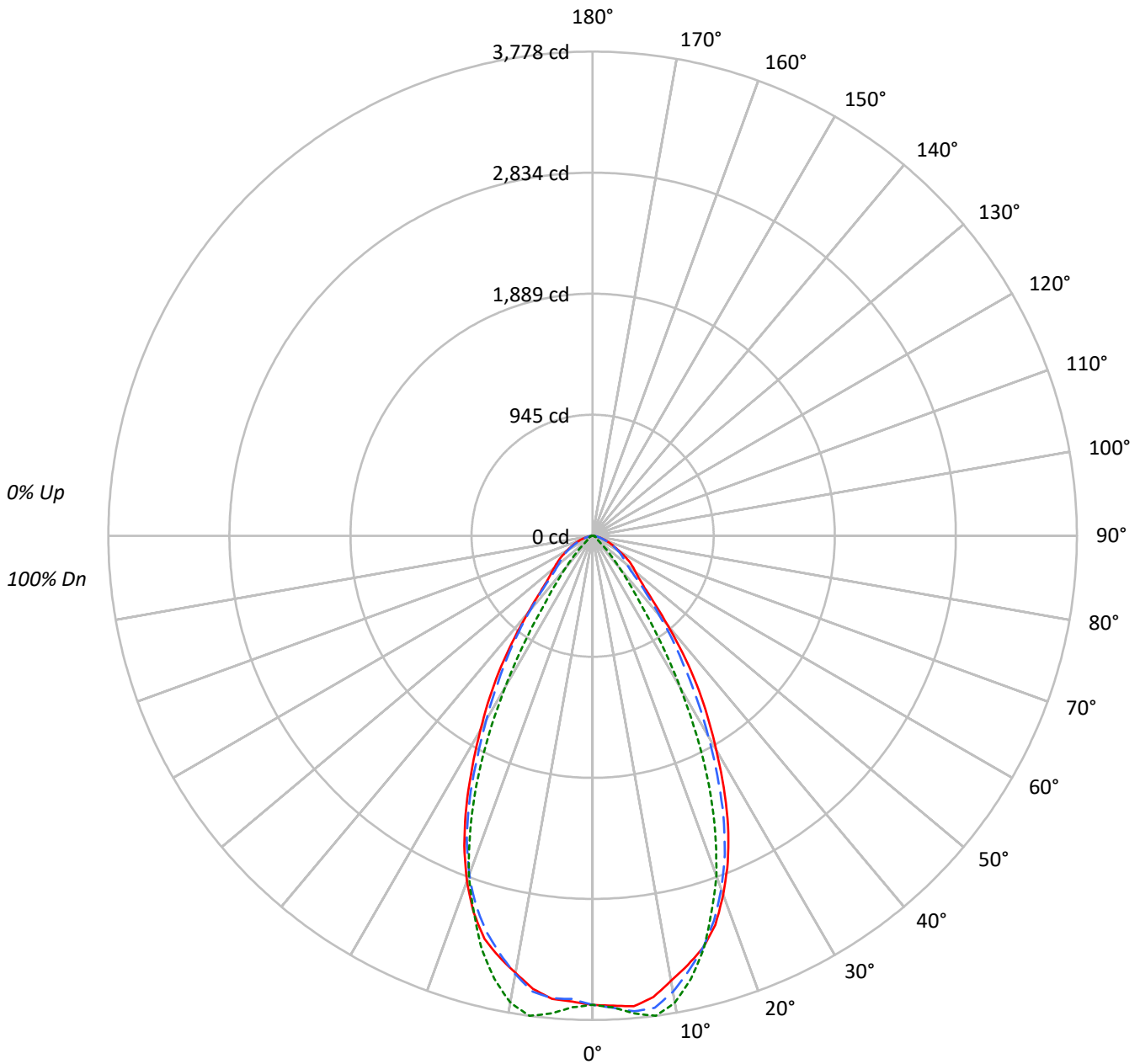
Lumens per Lamp: N/A
Luminaire Lumens: 3727.0 lumens
Efficiency: N/A
Efficacy: 75.1 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.87 / 0.88
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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°	200691	200691	200691
5°	202789	205866	199614
10°	196222	205858	192799
15°	188855	189592	184836
20°	173813	164689	167291
25°	151267	129866	140905
30°	122000	86285	110682
35°	94582	44490	83118
40°	64893	23050	55969
45°	44462	11552	39268
50°	37005	4921	33671
55°	33280	4272	30078
60°	26336	4079	25108
65°	21740	3619	21494
70°	17615	3286	17615
75°	13005	3558	13810
80°	7640	2936	8240
85°	5850	3522	5850



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	348.5	9.4
10°-20°	914.6	24.5
20°-30°	1044.0	28.0
30°-40°	692.4	18.6
40°-50°	333.9	9.0
50°-60°	205.4	5.5
60°-70°	124.3	3.3
70°-80°	52.3	1.4
80°-90°	11.5	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°	2307.1	61.9
0°-40°	2999.5	80.5
0°-60°	3538.9	95.0
0°-90°	3727.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3727.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3661	3661	3661	3661	3661	
5°	3685	3724	3741	3622	3627	346
15°	3328	3328	3341	3199	3257	927
25°	2501	2417	2147	2272	2330	1134
35°	1413	1246	665	1162	1242	874
45°	574	503	149	469	506	468
55°	348	283	45	283	315	306
65°	168	160	28	151	166	168
75°	61	61	17	58	65	66
85°	9	13	6	9	9	12
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°	3660.9	3660.9	3660.9	3660.9	3660.9	3660.9	3660.9	3660.9	3660.9
2.5°	3670.2	3675.8	3687.0	3688.8	3683.2	3647.9	3618.1	3629.2	3638.6
5°	3685.1	3696.3	3724.2	3750.3	3741.0	3681.4	3621.8	3619.9	3627.4
7.5°	3631.1	3657.2	3714.9	3780.1	3778.2	3675.8	3588.3	3565.9	3565.9
10°	3525.0	3549.2	3612.5	3700.0	3698.1	3569.7	3472.8	3461.7	3463.5
12.5°	3430.0	3441.2	3472.8	3541.7	3541.7	3415.1	3340.6	3351.8	3366.7
15°	3327.6	3335.0	3327.6	3349.9	3340.6	3236.3	3199.1	3234.5	3256.8
17.5°	3182.3	3186.1	3147.0	3117.2	3081.8	3016.6	3025.9	3078.1	3083.6
20°	2979.4	3003.6	2932.8	2856.5	2823.0	2761.5	2813.6	2871.4	2867.6
22.5°	2755.9	2783.8	2692.6	2566.0	2497.1	2472.9	2566.0	2618.1	2616.3
25°	2500.8	2521.3	2417.0	2240.1	2147.0	2143.3	2271.8	2325.8	2329.5
27.5°	2214.0	2221.5	2104.2	1873.3	1757.8	1785.8	1947.8	2022.2	2031.6
30°	1927.3	1923.6	1802.5	1515.8	1363.1	1439.4	1657.3	1739.2	1748.5
32.5°	1664.7	1653.5	1515.8	1173.1	990.6	1104.2	1391.0	1476.6	1491.5
35°	1413.3	1394.7	1245.7	867.7	664.8	834.2	1162.0	1236.4	1242.0
37.5°	1150.8	1141.5	1024.2	649.9	463.7	633.1	947.8	1001.8	996.2
40°	906.8	906.8	810.0	482.3	322.1	471.1	750.4	798.8	782.1
42.5°	711.3	720.6	638.7	355.7	229.0	350.1	594.0	638.7	620.1
45°	573.5	573.5	502.8	264.4	149.0	260.7	469.3	510.2	506.5
47.5°	486.0	478.6	407.8	193.7	81.9	195.5	394.8	445.0	443.2
50°	433.9	422.7	350.1	152.7	57.7	162.0	346.4	392.9	394.8
52.5°	392.9	376.1	314.7	135.9	50.3	141.5	314.7	351.9	351.9
55°	348.2	338.9	283.0	121.0	44.7	126.6	283.0	316.6	314.7
57.5°	294.2	292.4	253.2	109.9	41.0	111.7	253.2	273.7	266.3
60°	240.2	247.7	219.7	98.7	37.2	100.6	216.0	232.8	229.0
62.5°	201.1	210.4	191.8	87.5	31.7	89.4	182.5	199.2	195.5
65°	167.6	175.0	160.1	74.5	27.9	74.5	150.8	165.7	165.7
67.5°	137.8	143.4	132.2	61.4	24.2	61.4	122.9	135.9	137.8
70°	109.9	113.6	104.3	48.4	20.5	50.3	96.8	109.9	109.9
72.5°	85.7	87.5	81.9	39.1	18.6	39.1	74.5	85.7	85.7
75°	61.4	65.2	61.4	29.8	16.8	29.8	57.7	63.3	65.2
77.5°	35.4	44.7	44.7	24.2	13.0	22.3	41.0	42.8	42.8
80°	24.2	27.9	31.7	16.8	9.3	16.8	26.1	27.9	26.1
82.5°	16.8	18.6	18.6	11.2	7.4	11.2	16.8	18.6	16.8
85°	9.3	13.0	13.0	9.3	5.6	7.4	9.3	11.2	9.3
87.5°	5.6	7.4	9.3	7.4	5.6	5.6	5.6	5.6	3.7
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)