

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: P799718

Luminaire Tested: **LD6C45D010 EU6459027 6LBMDSWGPH**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P799718
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 EU6459027 6LBMDSWGPH
Description: 6 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 6LBMDSW TRIM WITH GPH FINISH
Light Source: -
Ballast/Driver: -

Summary

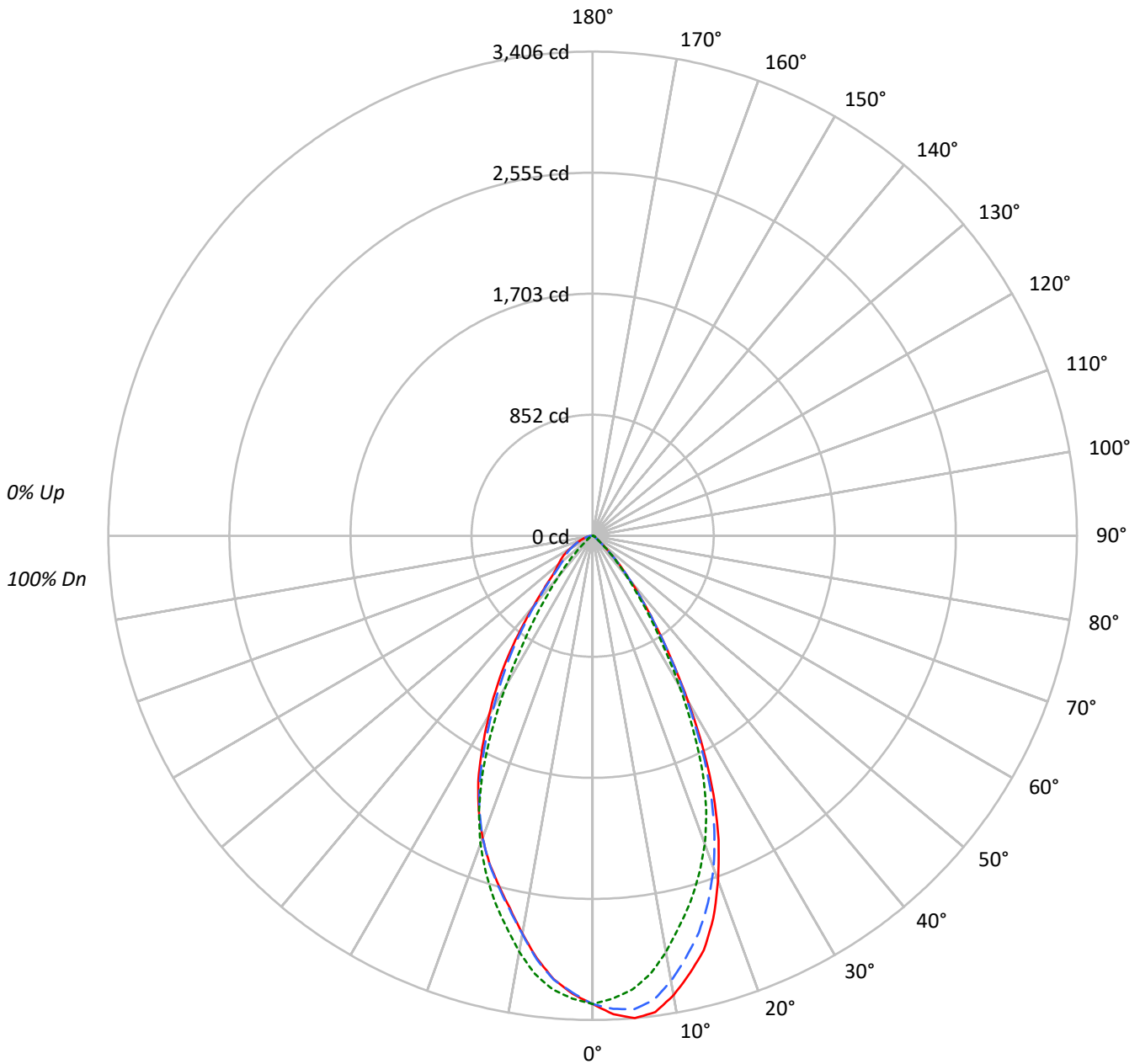
Lumens per Lamp: N/A
Luminaire Lumens: 2836.0 lumens
Efficiency: N/A
Efficacy: 57.2 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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
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°	180578	180578	180578
5°	187442	176342	172353
10°	182651	165406	158130
15°	171301	151136	144604
20°	150385	134552	131979
25°	121628	110541	115095
30°	84557	76999	92109
35°	52113	47167	69520
40°	29491	26442	46172
45°	14319	13660	31507
50°	5450	5450	26788
55°	2992	3527	24716
60°	2182	2807	20251
65°	1842	2400	16591
70°	1587	2052	13672
75°	1504	2097	11734
80°	884	1799	8524
85°	881	3585	8051



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	301.6	10.6
10°-20°	757.9	26.7
20°-30°	853.2	30.1
30°-40°	528.3	18.6
40°-50°	210.4	7.4
50°-60°	95.8	3.4
60°-70°	55.1	1.9
70°-80°	26.1	0.9
80°-90°	7.6	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°	1912.7	67.4
0°-40°	2441.0	86.1
0°-60°	2747.2	96.9
0°-90°	2836.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2836.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3294	3294	3294	3294	3294	
5°	3406	3344	3204	3135	3132	321
15°	3018	2888	2663	2555	2548	835
25°	2011	1957	1828	1873	1903	904
35°	779	774	705	982	1039	500
45°	185	185	176	384	406	157
55°	31	30	37	227	259	31
65°	14	13	18	126	128	14
75°	7	7	10	54	55	7
85°	1	1	6	13	13	1
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°	3294.0	3294.0	3294.0	3294.0	3294.0	3294.0	3294.0	3294.0	3294.0
2.5°	3369.3	3338.0	3330.9	3303.9	3258.5	3232.9	3217.2	3205.9	3225.8
5°	3406.2	3372.1	3343.7	3288.3	3204.5	3157.6	3134.8	3116.3	3132.0
7.5°	3379.2	3330.9	3292.6	3215.8	3109.2	3036.8	3005.5	2984.2	2998.4
10°	3281.2	3222.9	3178.9	3087.9	2971.4	2884.7	2846.3	2826.5	2840.7
12.5°	3153.3	3105.0	3038.2	2938.7	2813.7	2722.7	2694.3	2678.7	2684.4
15°	3018.3	2961.5	2887.6	2788.1	2663.0	2572.1	2555.0	2545.1	2547.9
17.5°	2822.2	2766.8	2702.8	2606.2	2491.1	2417.2	2417.2	2410.1	2414.4
20°	2577.8	2547.9	2485.4	2404.4	2306.4	2239.6	2260.9	2253.8	2262.3
22.5°	2313.5	2290.7	2236.7	2169.9	2087.5	2034.9	2081.8	2080.4	2091.8
25°	2010.8	1993.7	1956.8	1899.9	1827.5	1794.8	1872.9	1872.9	1902.8
27.5°	1676.8	1659.8	1634.2	1585.9	1526.2	1516.3	1631.4	1645.6	1678.3
30°	1335.8	1324.4	1310.2	1266.1	1216.4	1234.9	1394.0	1418.2	1455.1
32.5°	1031.7	1024.6	1020.3	980.5	936.5	997.6	1179.5	1210.7	1247.7
35°	778.7	763.1	774.5	744.6	704.8	781.6	981.9	1008.9	1038.8
37.5°	574.1	562.7	572.7	551.4	515.8	599.7	788.7	805.7	825.6
40°	412.1	402.2	410.7	397.9	369.5	447.6	618.2	636.6	645.2
42.5°	292.7	275.7	284.2	274.3	260.1	336.8	486.0	503.0	505.9
45°	184.7	179.1	184.7	179.1	176.2	250.1	383.7	399.3	406.4
47.5°	112.3	105.2	105.2	102.3	105.2	184.7	316.9	339.6	351.0
50°	63.9	61.1	59.7	58.3	63.9	144.9	274.3	299.8	314.1
52.5°	42.6	41.2	41.2	39.8	46.9	122.2	247.3	270.0	284.2
55°	31.3	29.8	29.8	29.8	36.9	105.2	227.4	245.8	258.6
57.5°	24.2	24.2	24.2	22.7	31.3	89.5	203.2	213.2	223.1
60°	19.9	18.5	18.5	18.5	25.6	76.7	174.8	179.1	184.7
62.5°	15.6	15.6	15.6	15.6	21.3	68.2	150.6	150.6	153.5
65°	14.2	12.8	12.8	12.8	18.5	59.7	126.5	125.1	127.9
67.5°	11.4	11.4	11.4	11.4	15.6	51.2	103.7	102.3	105.2
70°	9.9	9.9	9.9	9.9	12.8	42.6	83.8	82.4	85.3
72.5°	8.5	8.5	8.5	8.5	11.4	35.5	66.8	66.8	68.2
75°	7.1	7.1	7.1	7.1	9.9	27.0	54.0	54.0	55.4
77.5°	5.7	5.7	5.7	5.7	7.1	21.3	41.2	39.8	39.8
80°	2.8	4.3	4.3	4.3	5.7	15.6	29.8	27.0	27.0
82.5°	1.4	2.8	2.8	2.8	5.7	11.4	19.9	18.5	18.5
85°	1.4	1.4	1.4	4.3	5.7	8.5	12.8	12.8	12.8
87.5°	0.0	1.4	2.8	5.7	7.1	7.1	8.5	7.1	7.1
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)