

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: P799790

Luminaire Tested: **LD6C50D010 EU6509030 6LBMDSWGPH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P799790
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: LD6C50D010 EU6509030 6LBMDSWGPH
Description: 6 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 6LBMDSW TRIM WITH GPH FINISH
Light Source: -
Ballast/Driver: -

Summary

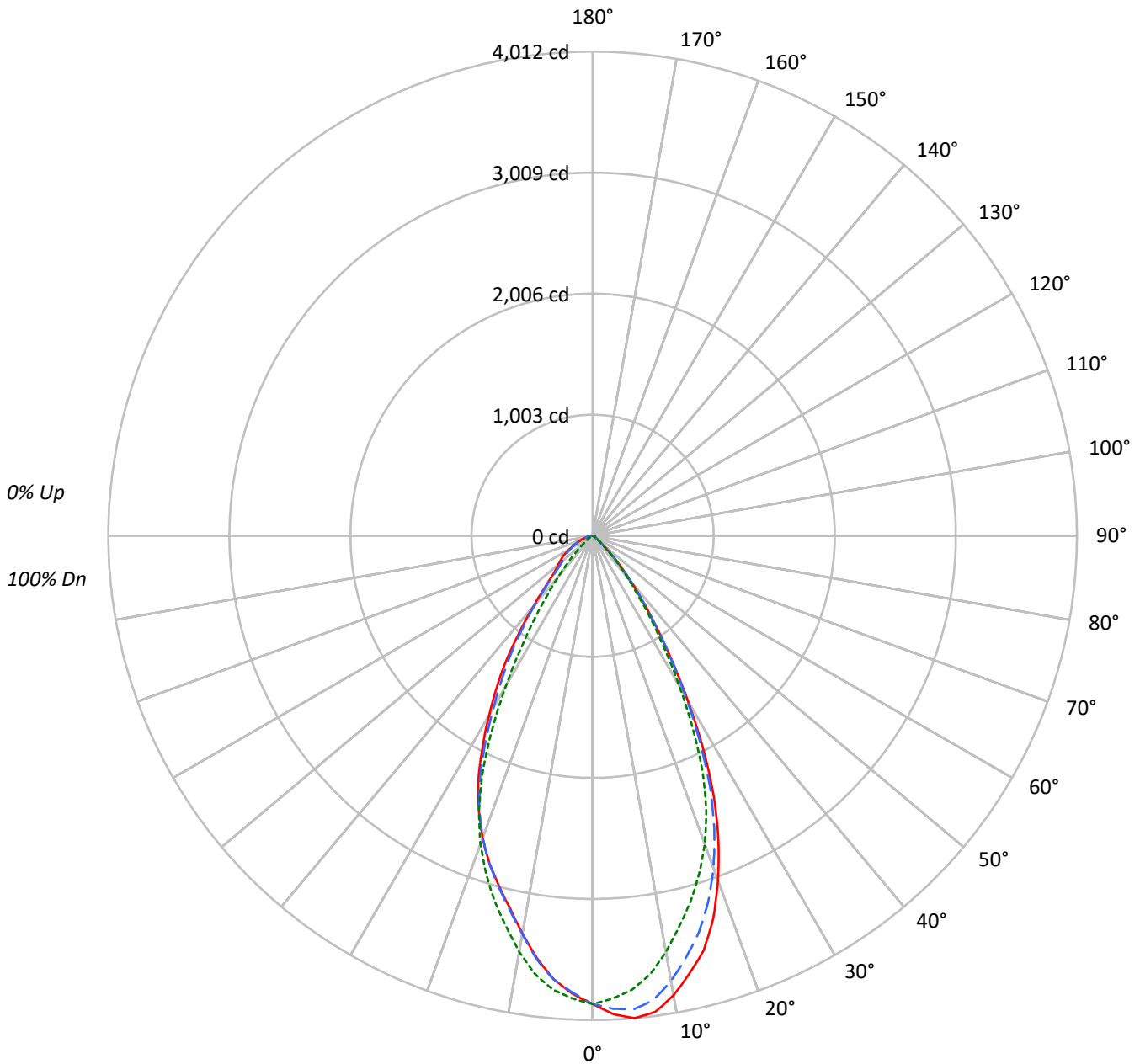
Lumens per Lamp: N/A
Luminaire Lumens: 3340.0 lumens
Efficiency: N/A
Efficacy: 57.2 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 58.4
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									
RC	80									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°	212669	212669	212669
5°	220757	207676	202982
10°	215110	194803	186230
15°	201743	177998	170302
20°	177110	158459	155431
25°	143240	130181	135546
30°	99585	90685	108479
35°	61375	55553	81874
40°	34729	31137	54373
45°	16870	16087	37105
50°	6422	6422	31547
55°	3517	4158	29112
60°	2566	3300	23858
65°	2166	2828	19535
70°	1875	2420	16092
75°	1779	2478	13831
80°	1042	2115	10039
85°	1069	4214	9498



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	355.1	10.6
10°-20°	892.6	26.7
20°-30°	1004.8	30.1
30°-40°	622.2	18.6
40°-50°	247.8	7.4
50°-60°	112.8	3.4
60°-70°	64.8	1.9
70°-80°	30.8	0.9
80°-90°	9.0	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°	2252.6	67.4
0°-40°	2874.8	86.1
0°-60°	3235.4	96.9
0°-90°	3340.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3340.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3879	3879	3879	3879	3879	
5°	4012	3938	3774	3692	3689	378
15°	3555	3401	3136	3009	3001	983
25°	2368	2304	2152	2206	2241	1064
35°	917	912	830	1156	1223	589
45°	218	218	208	452	479	184
55°	37	35	44	268	305	37
65°	17	15	22	149	151	16
75°	8	8	12	64	65	9
85°	2	2	7	15	15	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°	3879.4	3879.4	3879.4	3879.4	3879.4	3879.4	3879.4	3879.4	3879.4
2.5°	3968.1	3931.2	3922.9	3891.1	3837.5	3807.4	3789.0	3775.6	3799.0
5°	4011.6	3971.4	3937.9	3872.7	3773.9	3718.7	3691.9	3670.2	3688.6
7.5°	3979.8	3922.9	3877.7	3787.3	3661.8	3576.4	3539.6	3514.5	3531.3
10°	3864.3	3795.7	3743.8	3636.7	3499.5	3397.4	3352.2	3328.8	3345.5
12.5°	3713.7	3656.8	3578.1	3461.0	3313.7	3206.6	3173.1	3154.7	3161.4
15°	3554.7	3487.7	3400.7	3283.6	3136.3	3029.2	3009.1	2997.4	3000.7
17.5°	3323.7	3258.5	3183.2	3069.4	2933.8	2846.8	2846.8	2838.4	2843.4
20°	3035.9	3000.7	2927.1	2831.7	2716.2	2637.6	2662.7	2654.3	2664.3
22.5°	2724.6	2697.8	2634.2	2555.6	2458.5	2396.6	2451.8	2450.1	2463.5
25°	2368.1	2348.0	2304.5	2237.6	2152.2	2113.7	2205.8	2205.8	2240.9
27.5°	1974.8	1954.7	1924.6	1867.7	1797.4	1785.7	1921.3	1938.0	1976.5
30°	1573.2	1559.8	1543.0	1491.2	1432.6	1454.3	1641.8	1670.2	1713.7
32.5°	1215.0	1206.7	1201.6	1154.8	1102.9	1174.9	1389.1	1425.9	1469.4
35°	917.1	898.7	912.1	877.0	830.1	920.5	1156.4	1188.2	1223.4
37.5°	676.1	662.7	674.5	649.4	607.5	706.3	928.8	948.9	972.4
40°	485.3	473.6	483.7	468.6	435.1	527.2	728.0	749.8	759.8
42.5°	344.8	324.7	334.7	323.0	306.3	396.6	572.4	592.4	595.8
45°	217.6	210.9	217.6	210.9	207.5	294.6	451.9	470.3	478.6
47.5°	132.2	123.8	123.8	120.5	123.8	217.6	373.2	400.0	413.4
50°	75.3	72.0	70.3	68.6	75.3	170.7	323.0	353.1	369.9
52.5°	50.2	48.5	48.5	46.9	55.2	143.9	291.2	318.0	334.7
55°	36.8	35.1	35.1	35.1	43.5	123.8	267.8	289.5	304.6
57.5°	28.5	28.5	28.5	26.8	36.8	105.4	239.3	251.0	262.8
60°	23.4	21.8	21.8	21.8	30.1	90.4	205.9	210.9	217.6
62.5°	18.4	18.4	18.4	18.4	25.1	80.3	177.4	177.4	180.7
65°	16.7	15.1	15.1	15.1	21.8	70.3	148.9	147.3	150.6
67.5°	13.4	13.4	13.4	13.4	18.4	60.2	122.2	120.5	123.8
70°	11.7	11.7	11.7	11.7	15.1	50.2	98.7	97.1	100.4
72.5°	10.0	10.0	10.0	10.0	13.4	41.8	78.7	78.7	80.3
75°	8.4	8.4	8.4	8.4	11.7	31.8	63.6	63.6	65.3
77.5°	6.7	6.7	6.7	6.7	8.4	25.1	48.5	46.9	46.9
80°	3.3	5.0	5.0	5.0	6.7	18.4	35.1	31.8	31.8
82.5°	1.7	3.3	3.3	3.3	6.7	13.4	23.4	21.8	21.8
85°	1.7	1.7	1.7	5.0	6.7	10.0	15.1	15.1	15.1
87.5°	0.0	1.7	3.3	6.7	8.4	8.4	10.0	8.4	8.4
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)