

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: P799706

Luminaire Tested: **LD6C40D010 EU6409050 6LBMDSWGPH**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P799706
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: LD6C40D010 EU6409050 6LBMDSWGPH
Description: 6 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 6LBMDSW TRIM WITH GPH FINISH
Light Source: -
Ballast/Driver: -

Summary

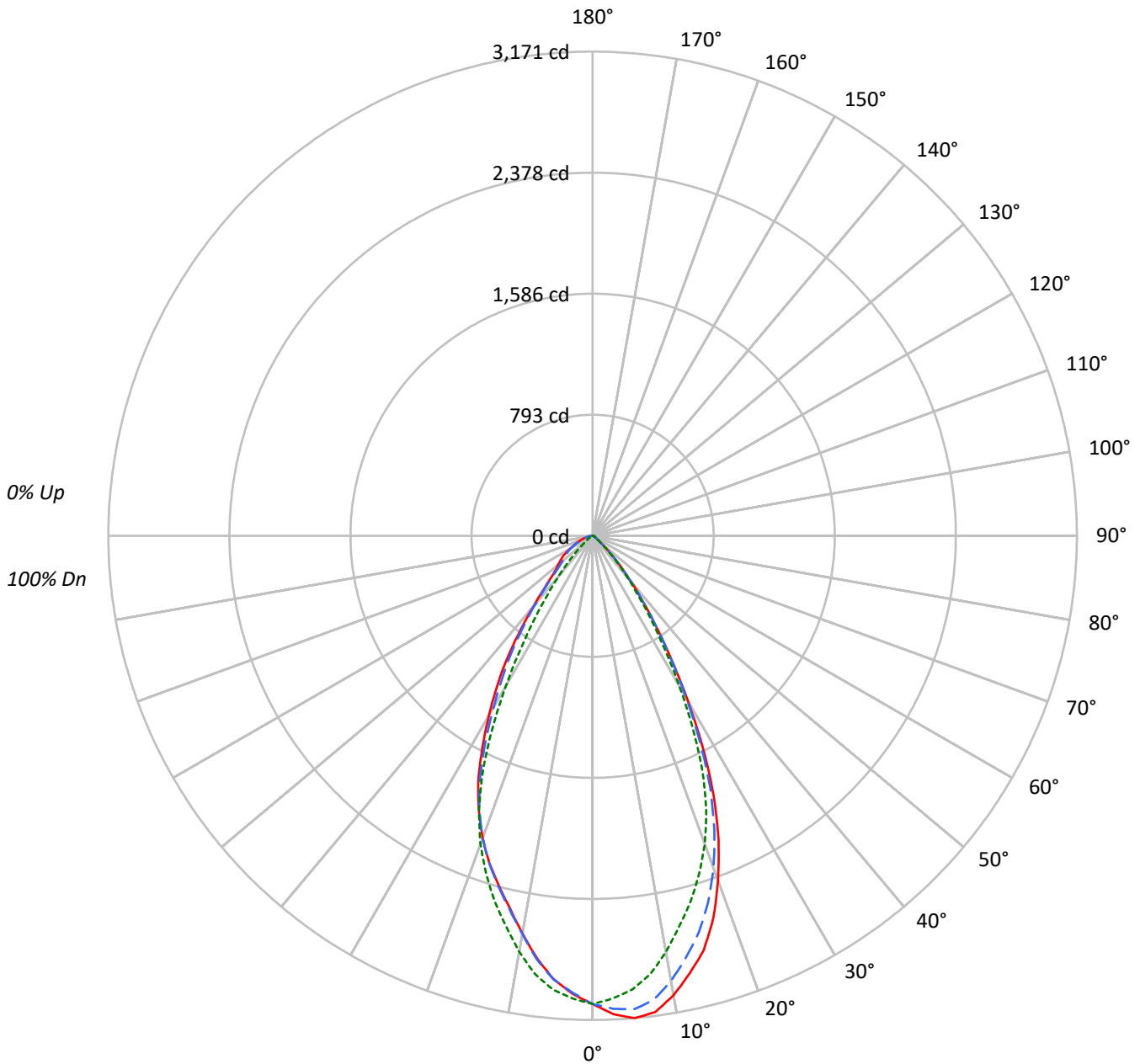
Lumens per Lamp: N/A
Luminaire Lumens: 2640.0 lumens
Efficiency: N/A
Efficacy: 56.2 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 47
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°	168095	168095	168095
5°	174488	164153	160439
10°	170026	153972	147197
15°	159462	140693	134609
20°	139989	125253	122855
25°	113220	102901	107141
30°	78715	71676	85747
35°	48513	43908	64715
40°	27451	24610	42981
45°	13335	12714	29329
50°	5074	5074	24929
55°	2781	3288	23015
60°	2028	2609	18858
65°	1712	2231	15449
70°	1491	1907	12727
75°	1398	1970	10929
80°	821	1673	7924
85°	818	3334	7485



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.7	10.6
10°-20°	705.5	26.7
20°-30°	794.2	30.1
30°-40°	491.8	18.6
40°-50°	195.9	7.4
50°-60°	89.2	3.4
60°-70°	51.3	1.9
70°-80°	24.3	0.9
80°-90°	7.1	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°	1780.5	67.4
0°-40°	2272.3	86.1
0°-60°	2557.3	96.9
0°-90°	2640.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2640.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3066	3066	3066	3066	3066	
5°	3171	3113	2983	2918	2916	299
15°	2810	2688	2479	2378	2372	777
25°	1872	1822	1701	1744	1771	841
35°	725	721	656	914	967	466
45°	172	172	164	357	378	146
55°	29	28	34	212	241	29
65°	13	12	17	118	119	13
75°	7	7	9	50	52	7
85°	1	1	5	12	12	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°	3066.3	3066.3	3066.3	3066.3	3066.3	3066.3	3066.3	3066.3	3066.3
2.5°	3136.4	3107.3	3100.7	3075.6	3033.3	3009.4	2994.9	2984.3	3002.8
5°	3170.8	3139.1	3112.6	3061.0	2983.0	2939.3	2918.2	2901.0	2915.5
7.5°	3145.7	3100.7	3065.0	2993.6	2894.4	2826.9	2797.8	2777.9	2791.2
10°	3054.4	3000.2	2959.2	2874.5	2766.0	2685.4	2649.6	2631.1	2644.3
12.5°	2935.4	2890.4	2828.2	2735.6	2619.2	2534.5	2508.1	2493.5	2498.8
15°	2809.7	2756.8	2688.0	2595.4	2479.0	2394.3	2378.5	2369.2	2371.8
17.5°	2627.1	2575.6	2516.0	2426.1	2318.9	2250.1	2250.1	2243.5	2247.5
20°	2399.6	2371.8	2313.6	2238.2	2147.0	2084.8	2104.6	2098.0	2105.9
22.5°	2153.6	2132.4	2082.1	2020.0	1943.2	1894.3	1937.9	1936.6	1947.2
25°	1871.8	1855.9	1821.5	1768.6	1701.2	1670.7	1743.5	1743.5	1771.3
27.5°	1560.9	1545.1	1521.3	1476.3	1420.7	1411.5	1518.6	1531.8	1562.3
30°	1243.5	1232.9	1219.7	1178.6	1132.3	1149.5	1297.7	1320.2	1354.6
32.5°	960.4	953.8	949.8	912.8	871.7	928.6	1098.0	1127.1	1161.4
35°	724.9	710.4	720.9	693.2	656.1	727.6	914.1	939.2	967.0
37.5°	534.4	523.8	533.1	513.3	480.2	558.2	734.2	750.0	768.6
40°	383.6	374.4	382.3	370.4	343.9	416.7	575.4	592.6	600.6
42.5°	272.5	256.6	264.6	255.3	242.1	313.5	452.4	468.3	470.9
45°	172.0	166.7	172.0	166.7	164.0	232.8	357.2	371.7	378.3
47.5°	104.5	97.9	97.9	95.2	97.9	172.0	295.0	316.2	326.7
50°	59.5	56.9	55.6	54.2	59.5	134.9	255.3	279.1	292.3
52.5°	39.7	38.4	38.4	37.0	43.7	113.8	230.2	251.3	264.6
55°	29.1	27.8	27.8	27.8	34.4	97.9	211.7	228.9	240.8
57.5°	22.5	22.5	22.5	21.2	29.1	83.3	189.2	198.4	207.7
60°	18.5	17.2	17.2	17.2	23.8	71.4	162.7	166.7	172.0
62.5°	14.6	14.6	14.6	14.6	19.8	63.5	140.2	140.2	142.9
65°	13.2	11.9	11.9	11.9	17.2	55.6	117.7	116.4	119.1
67.5°	10.6	10.6	10.6	10.6	14.6	47.6	96.6	95.2	97.9
70°	9.3	9.3	9.3	9.3	11.9	39.7	78.0	76.7	79.4
72.5°	7.9	7.9	7.9	7.9	10.6	33.1	62.2	62.2	63.5
75°	6.6	6.6	6.6	6.6	9.3	25.1	50.3	50.3	51.6
77.5°	5.3	5.3	5.3	5.3	6.6	19.8	38.4	37.0	37.0
80°	2.6	4.0	4.0	4.0	5.3	14.6	27.8	25.1	25.1
82.5°	1.3	2.6	2.6	2.6	5.3	10.6	18.5	17.2	17.2
85°	1.3	1.3	1.3	4.0	5.3	7.9	11.9	11.9	11.9
87.5°	0.0	1.3	2.6	5.3	6.6	6.6	7.9	6.6	6.6
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)