

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: P799690

Luminaire Tested: **LD6C40D010 EU6409040 6LBMDDWLI**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P799690
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: LD6C40D010 EU6409040 6LBMDDWLI
Description: 6 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 6LBMDDW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

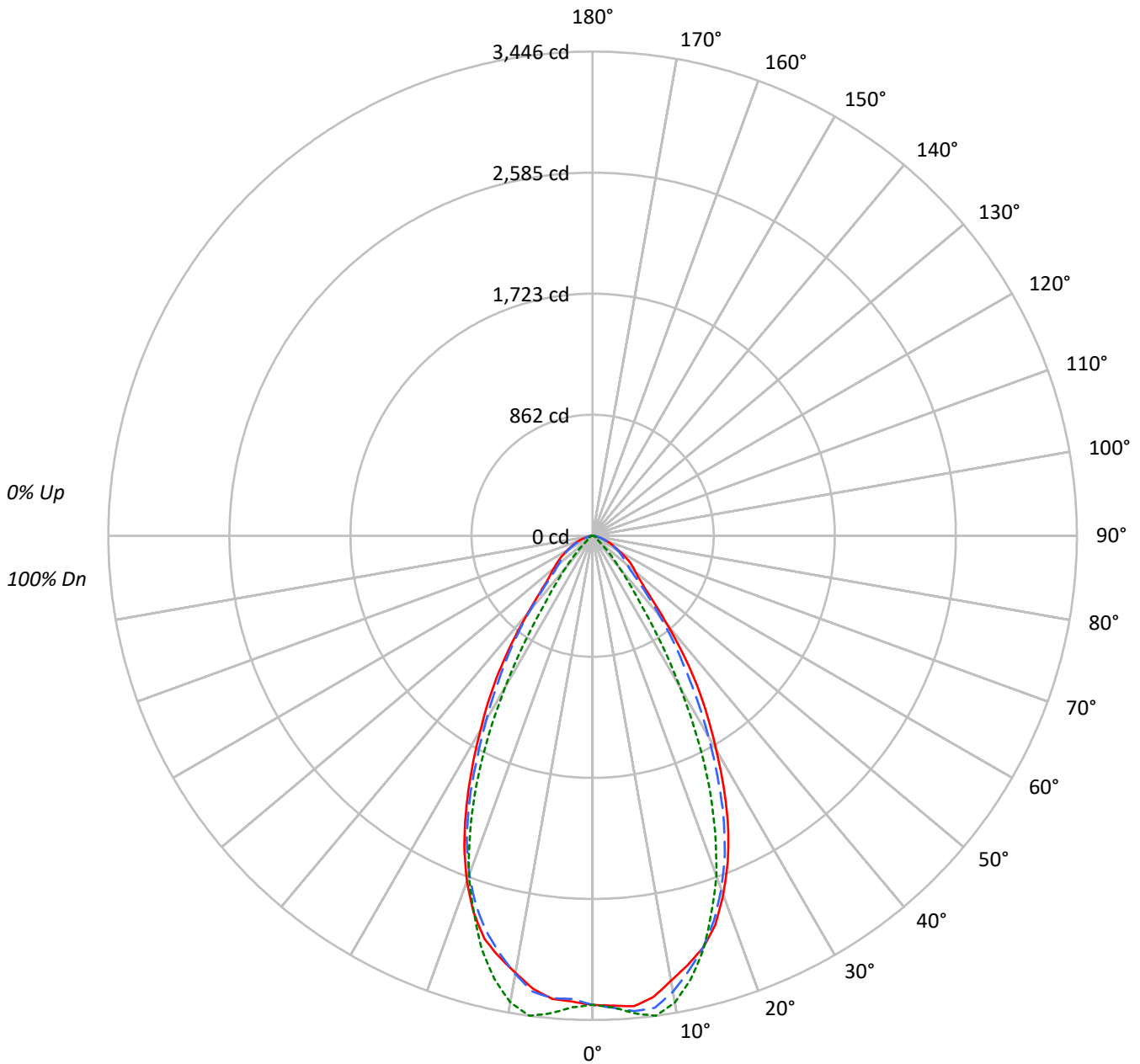
Lumens per Lamp: N/A
Luminaire Lumens: 3399.0 lumens
Efficiency: N/A
Efficacy: 72.3 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.87 / 0.88
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 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	112	109	106	104	110	107	105	102	103	101	99	99	98	96	96	94	93	91				91				
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	83				83				
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76				76				
4	94	85	79	74	92	84	78	74	82	77	73	80	76	72	78	74	71	70				70				
5	89	79	73	68	87	78	72	68	76	71	67	75	70	66	73	69	66	64				64				
6	84	74	67	62	82	73	67	62	71	66	62	70	65	61	69	64	61	59				59				
7	79	69	62	58	78	68	62	58	67	61	57	66	61	57	65	60	57	55				55				
8	75	65	58	54	74	64	58	54	63	57	53	62	57	53	61	56	53	51				51				
9	71	61	55	50	70	60	54	50	59	54	50	58	53	50	58	53	50	48				48				
10	68	57	51	47	67	57	51	47	56	51	47	55	50	47	55	50	47	45				45				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	183028	183028	183028
5°	184943	187744	182043
10°	178949	187744	175832
15°	172231	172907	168571
20°	158517	150192	152572
25°	137954	118440	128505
30°	111264	78689	100940
35°	86264	40575	75804
40°	59182	21025	51046
45°	40555	10536	35810
50°	33747	4486	30703
55°	30355	3900	27430
60°	24022	3728	22904
65°	19821	3308	19600
70°	16060	2997	16060
75°	11861	3241	12581
80°	6977	2683	7514
85°	5346	3208	5346



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	317.8	9.4
10°-20°	834.2	24.5
20°-30°	952.1	28.0
30°-40°	631.4	18.6
40°-50°	304.5	9.0
50°-60°	187.3	5.5
60°-70°	113.4	3.3
70°-80°	47.7	1.4
80°-90°	10.5	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°	2104.1	61.9
0°-40°	2735.5	80.5
0°-60°	3227.4	95.0
0°-90°	3399.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3399.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3339	3339	3339	3339	3339	
5°	3361	3396	3412	3303	3308	316
15°	3035	3035	3047	2918	2970	846
25°	2281	2204	1958	2072	2124	1034
35°	1289	1136	606	1060	1133	797
45°	523	458	136	428	462	427
55°	318	258	41	258	287	279
65°	153	146	26	138	151	153
75°	56	56	15	53	59	60
85°	8	12	5	8	8	11
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°	3338.7	3338.7	3338.7	3338.7	3338.7	3338.7	3338.7	3338.7	3338.7
2.5°	3347.2	3352.3	3362.5	3364.2	3359.1	3326.8	3299.7	3309.8	3318.3
5°	3360.8	3371.0	3396.5	3420.2	3411.7	3357.4	3303.1	3301.4	3308.1
7.5°	3311.5	3335.3	3388.0	3447.4	3445.7	3352.3	3272.5	3252.1	3252.1
10°	3214.7	3236.8	3294.6	3374.4	3372.7	3255.5	3167.2	3157.0	3158.7
12.5°	3128.1	3138.3	3167.2	3230.0	3230.0	3114.5	3046.6	3056.8	3070.4
15°	3034.7	3041.5	3034.7	3055.1	3046.6	2951.5	2917.6	2949.8	2970.2
17.5°	2902.3	2905.7	2870.0	2842.8	2810.6	2751.1	2759.6	2807.2	2812.3
20°	2717.2	2739.2	2674.7	2605.1	2574.5	2518.5	2566.0	2618.7	2615.3
22.5°	2513.4	2538.9	2455.6	2340.2	2277.3	2255.2	2340.2	2387.7	2386.0
25°	2280.7	2299.4	2204.3	2043.0	1958.1	1954.7	2071.8	2121.1	2124.5
27.5°	2019.2	2026.0	1919.0	1708.4	1603.1	1628.6	1776.3	1844.3	1852.8
30°	1757.7	1754.3	1643.9	1382.4	1243.1	1312.7	1511.4	1586.1	1594.6
32.5°	1518.2	1508.0	1382.4	1069.9	903.5	1007.0	1268.6	1346.7	1360.3
35°	1289.0	1272.0	1136.1	791.4	606.3	760.8	1059.7	1127.6	1132.7
37.5°	1049.5	1041.0	934.0	592.7	422.9	577.4	864.4	913.6	908.6
40°	827.0	827.0	738.7	439.8	293.8	429.7	684.4	728.5	713.3
42.5°	648.7	657.2	582.5	324.4	208.9	319.3	541.7	582.5	565.5
45°	523.1	523.1	458.5	241.1	135.9	237.8	428.0	465.3	461.9
47.5°	443.2	436.4	371.9	176.6	74.7	178.3	360.0	405.9	404.2
50°	395.7	385.5	319.3	139.3	52.6	147.7	315.9	358.3	360.0
52.5°	358.3	343.0	287.0	124.0	45.9	129.1	287.0	321.0	321.0
55°	317.6	309.1	258.1	110.4	40.8	115.5	258.1	288.7	287.0
57.5°	268.3	266.6	231.0	100.2	37.4	101.9	231.0	249.6	242.8
60°	219.1	225.9	200.4	90.0	34.0	91.7	197.0	212.3	208.9
62.5°	183.4	191.9	174.9	79.8	28.9	81.5	166.4	181.7	178.3
65°	152.8	159.6	146.0	67.9	25.5	67.9	137.6	151.1	151.1
67.5°	125.7	130.8	120.6	56.0	22.1	56.0	112.1	124.0	125.7
70°	100.2	103.6	95.1	44.2	18.7	45.9	88.3	100.2	100.2
72.5°	78.1	79.8	74.7	35.7	17.0	35.7	67.9	78.1	78.1
75°	56.0	59.4	56.0	27.2	15.3	27.2	52.6	57.7	59.4
77.5°	32.3	40.8	40.8	22.1	11.9	20.4	37.4	39.1	39.1
80°	22.1	25.5	28.9	15.3	8.5	15.3	23.8	25.5	23.8
82.5°	15.3	17.0	17.0	10.2	6.8	10.2	15.3	17.0	15.3
85°	8.5	11.9	11.9	8.5	5.1	6.8	8.5	10.2	8.5
87.5°	5.1	6.8	8.5	6.8	5.1	5.1	5.1	5.1	3.4
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)