

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: P799711

Luminaire Tested: **LD6C40D010 EU6409050 6LBMDSWWMH**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P799711
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 6LBMDSWWMH
Description: 6 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 6LBMDSW TRIM WITH WMH FINISH
Light Source: -
Ballast/Driver: -

Summary

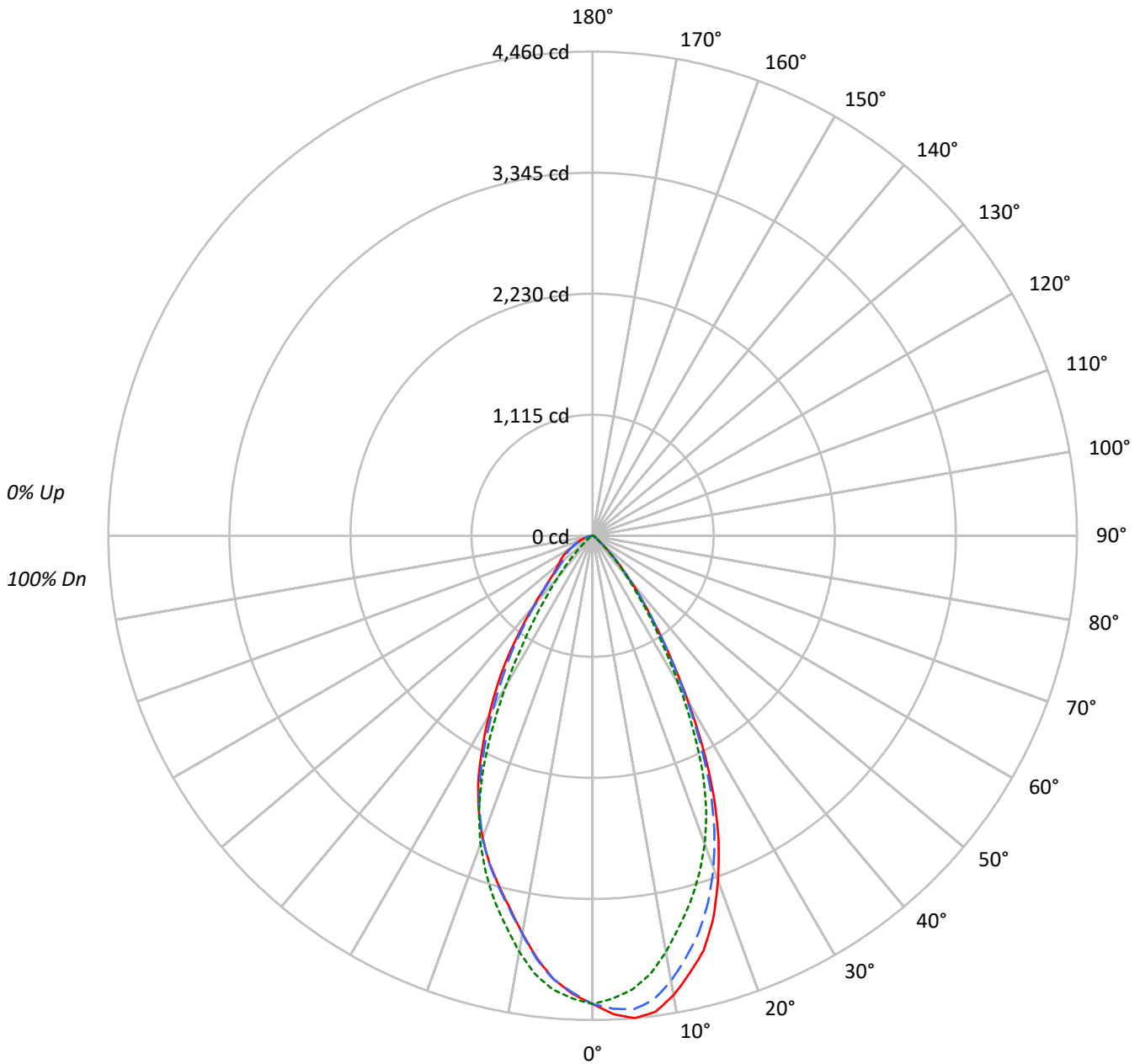
Lumens per Lamp: N/A
Luminaire Lumens: 3713.0 lumens
Efficiency: N/A
Efficacy: 79.0 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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°	236417	236417	236417
5°	245410	230871	225649
10°	239135	216557	207027
15°	224275	197873	189320
20°	196886	176159	172793
25°	159239	144722	150686
30°	110707	100813	120595
35°	68228	61757	91015
40°	38608	34615	60449
45°	18754	17886	41252
50°	7138	7138	35069
55°	3909	4626	32362
60°	2851	3673	26522
65°	2413	3139	21714
70°	2084	2677	17888
75°	1970	2754	15377
80°	1168	2336	11144
85°	1195	4655	10504



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	394.8	10.6
10°-20°	992.3	26.7
20°-30°	1117.0	30.1
30°-40°	691.7	18.6
40°-50°	275.5	7.4
50°-60°	125.4	3.4
60°-70°	72.1	1.9
70°-80°	34.2	0.9
80°-90°	10.0	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°	2504.1	67.4
0°-40°	3195.8	86.1
0°-60°	3596.7	96.9
0°-90°	3713.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3713.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4313	4313	4313	4313	4313	
5°	4460	4378	4195	4104	4100	420
15°	3952	3780	3486	3345	3336	1093
25°	2633	2562	2393	2452	2491	1183
35°	1020	1014	923	1286	1360	655
45°	242	242	231	502	532	205
55°	41	39	48	298	339	41
65°	19	17	24	166	167	18
75°	9	9	13	71	73	10
85°	2	2	7	17	17	2
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°	4312.6	4312.6	4312.6	4312.6	4312.6	4312.6	4312.6	4312.6	4312.6
2.5°	4411.2	4370.3	4361.0	4325.6	4266.1	4232.6	4212.1	4197.3	4223.3
5°	4459.6	4414.9	4377.7	4305.2	4195.4	4134.0	4104.2	4080.0	4100.5
7.5°	4424.2	4361.0	4310.7	4210.3	4070.7	3975.9	3934.9	3907.0	3925.6
10°	4295.9	4219.6	4161.9	4042.8	3890.3	3776.8	3726.5	3700.5	3719.1
12.5°	4128.4	4065.2	3977.7	3847.5	3683.8	3564.7	3527.5	3507.0	3514.5
15°	3951.7	3877.2	3780.5	3650.3	3486.5	3367.5	3345.2	3332.1	3335.8
17.5°	3694.9	3622.4	3538.6	3412.1	3261.4	3164.7	3164.7	3155.4	3161.0
20°	3374.9	3335.8	3254.0	3147.9	3019.6	2932.1	2960.0	2950.7	2961.9
22.5°	3028.9	2999.1	2928.4	2841.0	2733.1	2664.2	2725.6	2723.7	2738.6
25°	2632.6	2610.3	2561.9	2487.5	2392.6	2349.8	2452.1	2452.1	2491.2
27.5°	2195.4	2173.0	2139.6	2076.3	1998.2	1985.1	2135.8	2154.4	2197.2
30°	1748.9	1734.0	1715.4	1657.7	1592.6	1616.8	1825.1	1856.8	1905.1
32.5°	1350.7	1341.4	1335.8	1283.7	1226.1	1306.1	1544.2	1585.1	1633.5
35°	1019.5	999.1	1014.0	974.9	922.8	1023.3	1285.6	1320.9	1360.0
37.5°	751.6	736.8	749.8	721.9	675.4	785.1	1032.6	1054.9	1080.9
40°	539.5	526.5	537.7	520.9	483.7	586.1	809.3	833.5	844.7
42.5°	383.3	360.9	372.1	359.1	340.5	440.9	636.3	658.6	662.3
45°	241.9	234.4	241.9	234.4	230.7	327.4	502.3	522.8	532.1
47.5°	147.0	137.7	137.7	134.0	137.7	241.9	414.9	444.7	459.5
50°	83.7	80.0	78.1	76.3	83.7	189.8	359.1	392.6	411.2
52.5°	55.8	54.0	54.0	52.1	61.4	160.0	323.7	353.5	372.1
55°	40.9	39.1	39.1	39.1	48.4	137.7	297.7	321.9	338.6
57.5°	31.6	31.6	31.6	29.8	40.9	117.2	266.0	279.1	292.1
60°	26.0	24.2	24.2	24.2	33.5	100.5	228.8	234.4	241.9
62.5°	20.5	20.5	20.5	20.5	27.9	89.3	197.2	197.2	200.9
65°	18.6	16.7	16.7	16.7	24.2	78.1	165.6	163.7	167.4
67.5°	14.9	14.9	14.9	14.9	20.5	67.0	135.8	134.0	137.7
70°	13.0	13.0	13.0	13.0	16.7	55.8	109.8	107.9	111.6
72.5°	11.2	11.2	11.2	11.2	14.9	46.5	87.4	87.4	89.3
75°	9.3	9.3	9.3	9.3	13.0	35.3	70.7	70.7	72.6
77.5°	7.4	7.4	7.4	7.4	9.3	27.9	54.0	52.1	52.1
80°	3.7	5.6	5.6	5.6	7.4	20.5	39.1	35.3	35.3
82.5°	1.9	3.7	3.7	3.7	7.4	14.9	26.0	24.2	24.2
85°	1.9	1.9	1.9	5.6	7.4	11.2	16.7	16.7	16.7
87.5°	0.0	1.9	3.7	7.4	9.3	9.3	11.2	9.3	9.3
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)