

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: P799699

Luminaire Tested: **LD6C40D010 EU6409040 6LBMDSWWMH**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P799699
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 EU6409040 6LBMDSWWMH
Description: 6 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 6LBMDSW TRIM WITH WMH FINISH
Light Source: -
Ballast/Driver: -

Summary

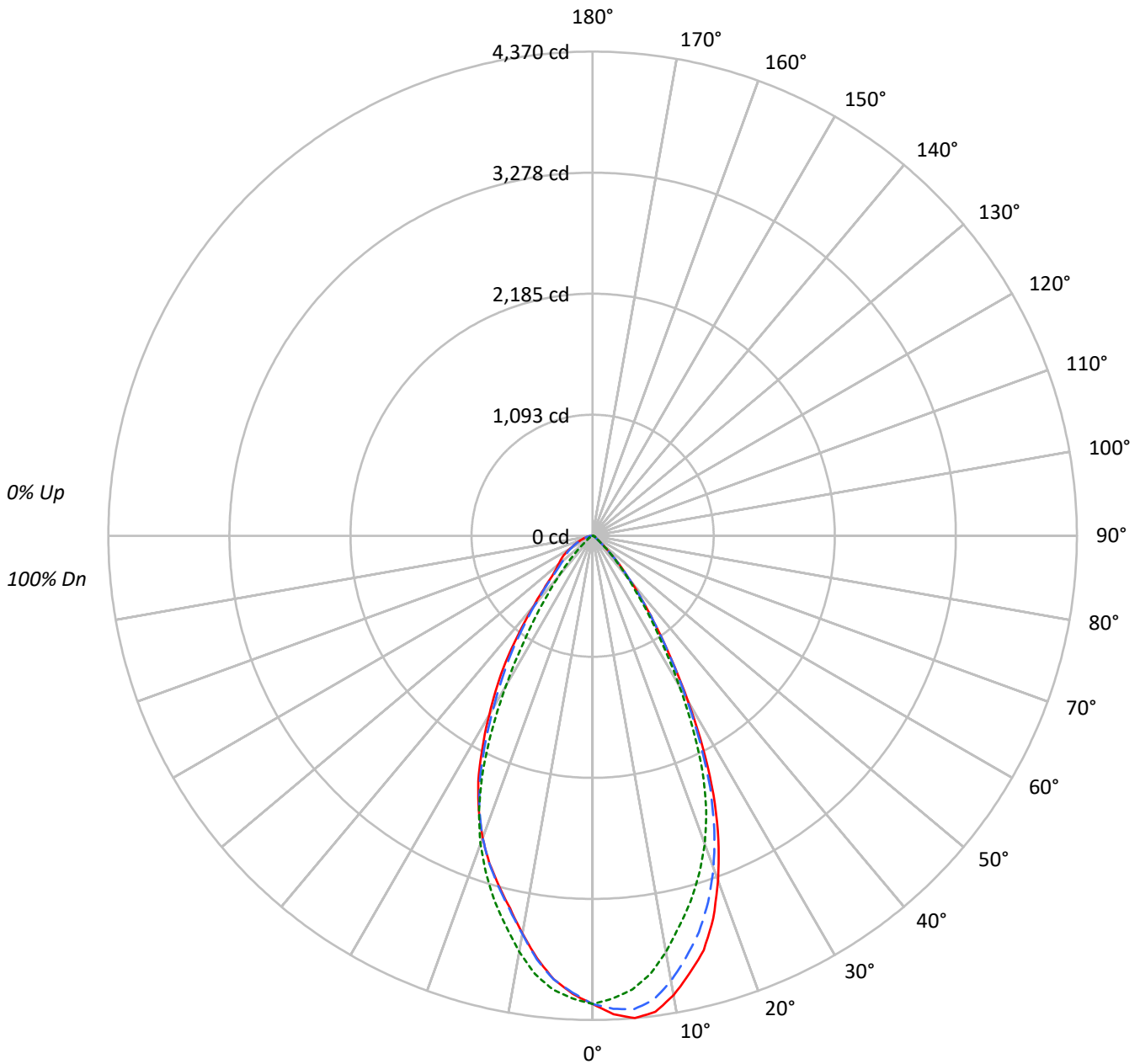
Lumens per Lamp: N/A
Luminaire Lumens: 3638.0 lumens
Efficiency: N/A
Efficacy: 77.4 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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	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°	231643	231643	231643
5°	240452	226205	221092
10°	234303	212182	202846
15°	219740	193877	185500
20°	192908	172600	169304
25°	156021	141801	147644
30°	108466	98775	118164
35°	66856	60512	89175
40°	37828	33921	59225
45°	18374	17521	40423
50°	6993	6993	34361
55°	3833	4530	31712
60°	2796	3596	25985
65°	2361	3074	21286
70°	2052	2629	17535
75°	1927	2711	15060
80°	1137	2305	10923
85°	1132	4592	10315



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	386.8	10.6
10°-20°	972.2	26.7
20°-30°	1094.5	30.1
30°-40°	677.7	18.6
40°-50°	269.9	7.4
50°-60°	122.9	3.4
60°-70°	70.6	1.9
70°-80°	33.5	0.9
80°-90°	9.8	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°	2453.6	67.4
0°-40°	3131.3	86.1
0°-60°	3524.1	96.9
0°-90°	3638.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3638.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4226	4226	4226	4226	4226	
5°	4370	4289	4111	4021	4018	412
15°	3872	3704	3416	3278	3268	1071
25°	2579	2510	2344	2403	2441	1159
35°	999	994	904	1260	1332	642
45°	237	237	226	492	521	201
55°	40	38	47	292	332	40
65°	18	16	24	162	164	18
75°	9	9	13	69	71	9
85°	2	2	7	16	16	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°	4225.5	4225.5	4225.5	4225.5	4225.5	4225.5	4225.5	4225.5	4225.5
2.5°	4322.1	4282.0	4272.9	4238.3	4179.9	4147.1	4127.1	4112.5	4138.0
5°	4369.5	4325.8	4289.3	4218.2	4110.6	4050.5	4021.3	3997.6	4017.7
7.5°	4334.9	4272.9	4223.7	4125.2	3988.5	3895.5	3855.4	3828.1	3846.3
10°	4209.1	4134.3	4077.8	3961.2	3811.7	3700.5	3651.3	3625.8	3644.0
12.5°	4045.0	3983.0	3897.4	3769.8	3609.3	3492.7	3456.2	3436.2	3443.5
15°	3871.8	3798.9	3704.1	3576.5	3416.1	3299.5	3277.6	3264.8	3268.5
17.5°	3620.3	3549.2	3467.2	3343.2	3195.6	3100.8	3100.8	3091.6	3097.1
20°	3306.7	3268.5	3188.3	3084.4	2958.6	2872.9	2900.2	2891.1	2902.1
22.5°	2967.7	2938.5	2869.3	2783.6	2677.8	2610.4	2670.6	2668.7	2683.3
25°	2579.4	2557.5	2510.1	2437.2	2344.3	2302.3	2402.6	2402.6	2440.9
27.5°	2151.0	2129.2	2096.3	2034.4	1957.8	1945.0	2092.7	2110.9	2152.8
30°	1713.5	1698.9	1680.7	1624.2	1560.4	1584.1	1788.3	1819.3	1866.7
32.5°	1323.4	1314.3	1308.8	1257.8	1201.3	1279.7	1513.0	1553.1	1600.5
35°	999.0	978.9	993.5	955.2	904.2	1002.6	1259.6	1294.3	1332.5
37.5°	736.5	721.9	734.6	707.3	661.7	769.3	1011.7	1033.6	1059.1
40°	528.6	515.9	526.8	510.4	474.0	574.2	793.0	816.7	827.6
42.5°	375.5	353.6	364.6	351.8	333.6	432.0	623.4	645.3	649.0
45°	237.0	229.7	237.0	229.7	226.0	320.8	492.2	512.2	521.4
47.5°	144.0	134.9	134.9	131.2	134.9	237.0	406.5	435.7	450.3
50°	82.0	78.4	76.6	74.7	82.0	185.9	351.8	384.6	402.9
52.5°	54.7	52.9	52.9	51.0	60.2	156.8	317.2	346.4	364.6
55°	40.1	38.3	38.3	38.3	47.4	134.9	291.7	315.4	331.8
57.5°	31.0	31.0	31.0	29.2	40.1	114.8	260.7	273.4	286.2
60°	25.5	23.7	23.7	23.7	32.8	98.4	224.2	229.7	237.0
62.5°	20.1	20.1	20.1	20.1	27.3	87.5	193.2	193.2	196.9
65°	18.2	16.4	16.4	16.4	23.7	76.6	162.2	160.4	164.1
67.5°	14.6	14.6	14.6	14.6	20.1	65.6	133.1	131.2	134.9
70°	12.8	12.8	12.8	12.8	16.4	54.7	107.6	105.7	109.4
72.5°	10.9	10.9	10.9	10.9	14.6	45.6	85.7	85.7	87.5
75°	9.1	9.1	9.1	9.1	12.8	34.6	69.3	69.3	71.1
77.5°	7.3	7.3	7.3	7.3	9.1	27.3	52.9	51.0	51.0
80°	3.6	5.5	5.5	5.5	7.3	20.1	38.3	34.6	34.6
82.5°	1.8	3.6	3.6	3.6	7.3	14.6	25.5	23.7	23.7
85°	1.8	1.8	1.8	5.5	7.3	10.9	16.4	16.4	16.4
87.5°	0.0	1.8	3.6	7.3	9.1	9.1	10.9	9.1	9.1
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)