

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: P799663

Luminaire Tested: **LD6C40D010 EU6409027 6LBMDSWWMH**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P799663
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 EU6409027 6LBMDSWWMH
Description: 6 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 6LBMDSW TRIM WITH WMH FINISH
Light Source: -
Ballast/Driver: -

Summary

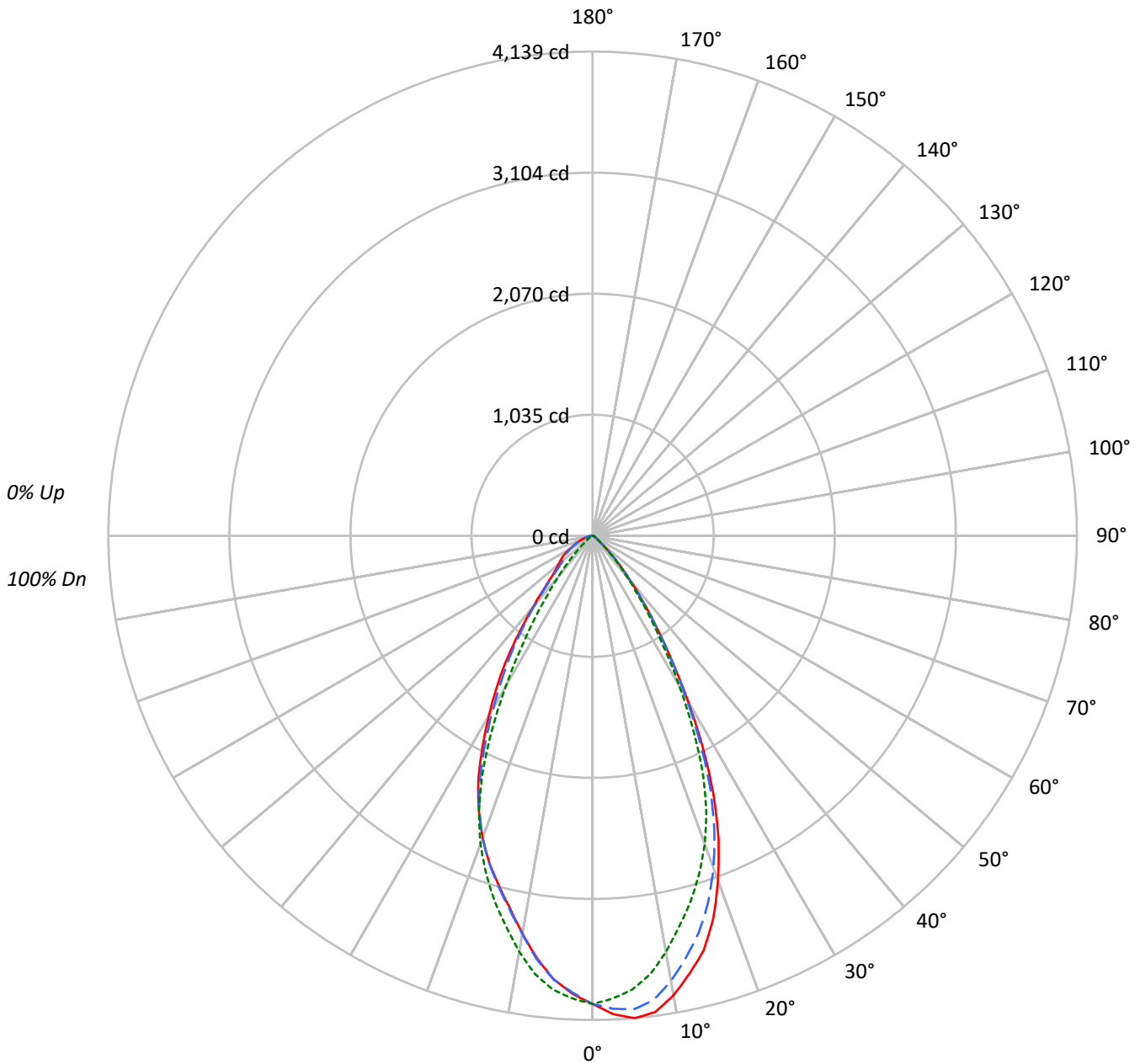
Lumens per Lamp: N/A
Luminaire Lumens: 3446.0 lumens
Efficiency: N/A
Efficacy: 73.3 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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									
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°	219418	219418	219418
5°	227762	214269	209421
10°	221934	200982	192142
15°	208145	183645	175710
20°	182728	163488	160366
25°	147789	134312	139847
30°	102744	93565	111922
35°	63323	57313	84470
40°	35831	32124	56098
45°	17405	16599	38283
50°	6627	6627	32545
55°	3632	4291	30040
60°	2653	3410	24614
65°	2244	2906	20158
70°	1939	2484	16605
75°	1822	2563	14255
80°	1105	2178	10355
85°	1069	4340	9749



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	366.4	10.6
10°-20°	920.9	26.7
20°-30°	1036.7	30.1
30°-40°	642.0	18.6
40°-50°	255.7	7.4
50°-60°	116.4	3.4
60°-70°	66.9	1.9
70°-80°	31.8	0.9
80°-90°	9.3	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°	2324.1	67.4
0°-40°	2966.0	86.1
0°-60°	3338.1	96.9
0°-90°	3446.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3446.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4002	4002	4002	4002	4002	
5°	4139	4063	3894	3809	3806	390
15°	3668	3509	3236	3105	3096	1015
25°	2443	2378	2220	2276	2312	1098
35°	946	941	856	1193	1262	608
45°	224	224	214	466	494	190
55°	38	36	45	276	314	38
65°	17	16	22	154	155	17
75°	9	9	12	66	67	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°	4002.5	4002.5	4002.5	4002.5	4002.5	4002.5	4002.5	4002.5	4002.5
2.5°	4094.0	4056.0	4047.4	4014.6	3959.3	3928.2	3909.2	3895.4	3919.6
5°	4138.9	4097.5	4062.9	3995.6	3893.7	3836.7	3809.1	3786.6	3805.6
7.5°	4106.1	4047.4	4000.8	3907.5	3778.0	3690.0	3652.0	3626.1	3643.3
10°	3986.9	3916.2	3862.6	3752.1	3610.5	3505.2	3458.6	3434.4	3451.7
12.5°	3831.5	3772.8	3691.7	3570.8	3418.9	3308.4	3273.8	3254.8	3261.7
15°	3667.5	3598.4	3508.6	3387.8	3235.8	3125.3	3104.6	3092.5	3096.0
17.5°	3429.2	3361.9	3284.2	3166.8	3026.9	2937.1	2937.1	2928.5	2933.7
20°	3132.2	3096.0	3020.0	2921.6	2802.4	2721.3	2747.2	2738.5	2748.9
22.5°	2811.1	2783.4	2717.8	2636.7	2536.5	2472.6	2529.6	2527.9	2541.7
25°	2443.3	2422.6	2377.7	2308.6	2220.5	2180.8	2275.8	2275.8	2312.0
27.5°	2037.5	2016.8	1985.7	1927.0	1854.5	1842.4	1982.2	1999.5	2039.2
30°	1623.1	1609.3	1592.0	1538.5	1478.1	1500.5	1693.9	1723.2	1768.1
32.5°	1253.6	1244.9	1239.8	1191.4	1137.9	1212.1	1433.2	1471.1	1516.0
35°	946.2	927.2	941.1	904.8	856.4	949.7	1193.1	1226.0	1262.2
37.5°	697.6	683.8	695.9	670.0	626.8	728.7	958.3	979.0	1003.2
40°	500.7	488.7	499.0	483.5	448.9	543.9	751.1	773.6	783.9
42.5°	355.7	335.0	345.3	333.3	316.0	409.2	590.5	611.3	614.7
45°	224.5	217.6	224.5	217.6	214.1	303.9	466.2	485.2	493.8
47.5°	136.4	127.8	127.8	124.3	127.8	224.5	385.1	412.7	426.5
50°	77.7	74.2	72.5	70.8	77.7	176.1	333.3	364.3	381.6
52.5°	51.8	50.1	50.1	48.3	57.0	148.5	300.4	328.1	345.3
55°	38.0	36.3	36.3	36.3	44.9	127.8	276.3	298.7	314.3
57.5°	29.4	29.4	29.4	27.6	38.0	108.8	246.9	259.0	271.1
60°	24.2	22.4	22.4	22.4	31.1	93.2	212.4	217.6	224.5
62.5°	19.0	19.0	19.0	19.0	25.9	82.9	183.0	183.0	186.5
65°	17.3	15.5	15.5	15.5	22.4	72.5	153.7	151.9	155.4
67.5°	13.8	13.8	13.8	13.8	19.0	62.2	126.0	124.3	127.8
70°	12.1	12.1	12.1	12.1	15.5	51.8	101.9	100.1	103.6
72.5°	10.4	10.4	10.4	10.4	13.8	43.2	81.2	81.2	82.9
75°	8.6	8.6	8.6	8.6	12.1	32.8	65.6	65.6	67.3
77.5°	6.9	6.9	6.9	6.9	8.6	25.9	50.1	48.3	48.3
80°	3.5	5.2	5.2	5.2	6.9	19.0	36.3	32.8	32.8
82.5°	1.7	3.5	3.5	3.5	6.9	13.8	24.2	22.4	22.4
85°	1.7	1.7	1.7	5.2	6.9	10.4	15.5	15.5	15.5
87.5°	0.0	1.7	3.5	6.9	8.6	8.6	10.4	8.6	8.6
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)