

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: P799687

Luminaire Tested: **LD6C40D010 EU6409035 6LBMDSWWMH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P799687
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 EU6409035 6LBMDSWWMH
Description: 6 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 6LBMDSW TRIM WITH WMH FINISH
Light Source: -
Ballast/Driver: -

Summary

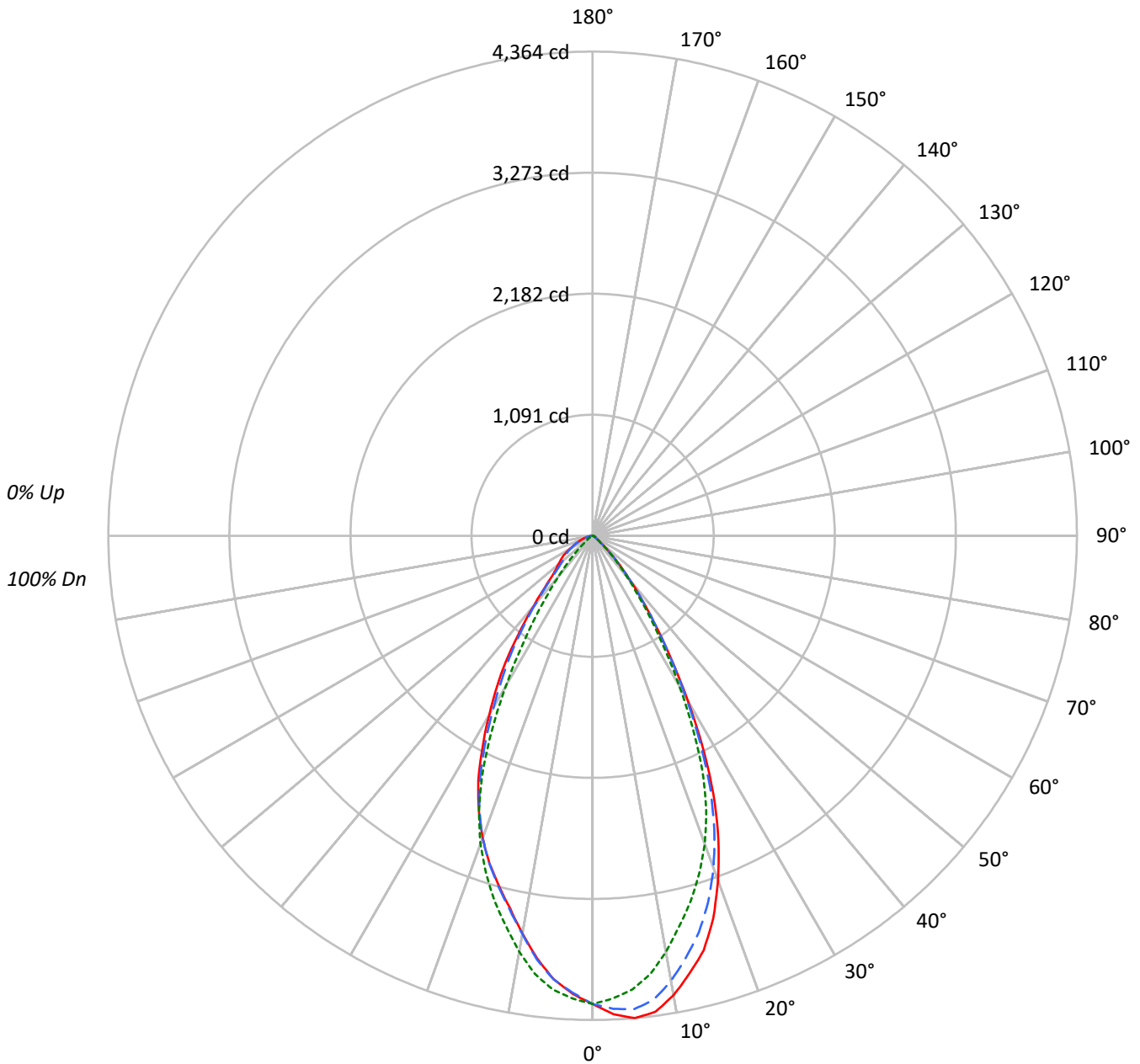
Lumens per Lamp: N/A
Luminaire Lumens: 3633.0 lumens
Efficiency: N/A
Efficacy: 77.3 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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°	231325	231325	231325
5°	240122	225896	220790
10°	233980	211892	202568
15°	219439	193611	185245
20°	192645	172361	169071
25°	155809	141601	147438
30°	108320	98642	117999
35°	66762	60425	89055
40°	37778	33871	59147
45°	18351	17498	40361
50°	6985	6985	34310
55°	3823	4521	31664
60°	2796	3596	25952
65°	2361	3074	21247
70°	2036	2629	17503
75°	1927	2690	15038
80°	1137	2305	10923
85°	1132	4592	10315



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	386.3	10.6
10°-20°	970.9	26.7
20°-30°	1093.0	30.1
30°-40°	676.8	18.6
40°-50°	269.5	7.4
50°-60°	122.7	3.4
60°-70°	70.5	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°	2450.2	67.4
0°-40°	3127.0	86.1
0°-60°	3519.2	96.9
0°-90°	3633.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3633.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4220	4220	4220	4220	4220	
5°	4364	4283	4105	4016	4012	411
15°	3866	3699	3411	3273	3264	1070
25°	2576	2507	2341	2399	2438	1158
35°	998	992	903	1258	1331	641
45°	237	237	226	492	521	201
55°	40	38	47	291	331	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°	4219.7	4219.7	4219.7	4219.7	4219.7	4219.7	4219.7	4219.7	4219.7
2.5°	4316.2	4276.1	4267.0	4232.4	4174.2	4141.4	4121.4	4106.8	4132.3
5°	4363.5	4319.8	4283.4	4212.4	4105.0	4044.9	4015.8	3992.1	4012.2
7.5°	4328.9	4267.0	4217.9	4119.6	3983.0	3890.2	3850.1	3822.8	3841.0
10°	4203.3	4128.7	4072.2	3955.7	3806.5	3695.4	3646.3	3620.8	3639.0
12.5°	4039.5	3977.6	3892.0	3764.6	3604.4	3487.9	3451.5	3431.5	3438.7
15°	3866.5	3793.7	3699.0	3571.6	3411.4	3294.9	3273.1	3260.3	3264.0
17.5°	3615.3	3544.3	3462.4	3338.6	3191.2	3096.5	3096.5	3087.4	3092.9
20°	3302.2	3264.0	3183.9	3080.1	2954.5	2868.9	2896.3	2887.2	2898.1
22.5°	2963.6	2934.5	2865.3	2779.7	2674.2	2606.8	2666.9	2665.1	2679.6
25°	2575.9	2554.0	2506.7	2433.9	2341.0	2299.2	2399.3	2399.3	2437.5
27.5°	2148.1	2126.2	2093.5	2031.6	1955.1	1942.4	2089.8	2108.0	2149.9
30°	1711.2	1696.6	1678.4	1622.0	1558.3	1581.9	1785.8	1816.8	1864.1
32.5°	1321.6	1312.5	1307.0	1256.1	1199.6	1277.9	1510.9	1551.0	1598.3
35°	997.6	977.6	992.1	953.9	902.9	1001.2	1257.9	1292.5	1330.7
37.5°	735.4	720.9	733.6	706.3	660.8	768.2	1010.3	1032.2	1057.7
40°	527.9	515.2	526.1	509.7	473.3	573.4	791.9	815.5	826.5
42.5°	375.0	353.2	364.1	351.3	333.1	431.4	622.6	644.4	648.1
45°	236.7	229.4	236.7	229.4	225.7	320.4	491.5	511.5	520.6
47.5°	143.8	134.7	134.7	131.1	134.7	236.7	405.9	435.1	449.6
50°	81.9	78.3	76.5	74.6	81.9	185.7	351.3	384.1	402.3
52.5°	54.6	52.8	52.8	51.0	60.1	156.6	316.7	345.9	364.1
55°	40.0	38.2	38.2	38.2	47.3	134.7	291.3	314.9	331.3
57.5°	30.9	30.9	30.9	29.1	40.0	114.7	260.3	273.1	285.8
60°	25.5	23.7	23.7	23.7	32.8	98.3	223.9	229.4	236.7
62.5°	20.0	20.0	20.0	20.0	27.3	87.4	193.0	193.0	196.6
65°	18.2	16.4	16.4	16.4	23.7	76.5	162.0	160.2	163.8
67.5°	14.6	14.6	14.6	14.6	20.0	65.5	132.9	131.1	134.7
70°	12.7	12.7	12.7	12.7	16.4	54.6	107.4	105.6	109.2
72.5°	10.9	10.9	10.9	10.9	14.6	45.5	85.6	85.6	87.4
75°	9.1	9.1	9.1	9.1	12.7	34.6	69.2	69.2	71.0
77.5°	7.3	7.3	7.3	7.3	9.1	27.3	52.8	51.0	51.0
80°	3.6	5.5	5.5	5.5	7.3	20.0	38.2	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)