

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: P799801

Luminaire Tested: **LD6C50D010 EU6509035 6LBMDDWWMH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P799801
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: LD6C50D010 EU6509035 6LBMDDWWMH
Description: 6 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 6LBMDDW TRIM WITH WMH FINISH
Light Source: -
Ballast/Driver: -

Summary

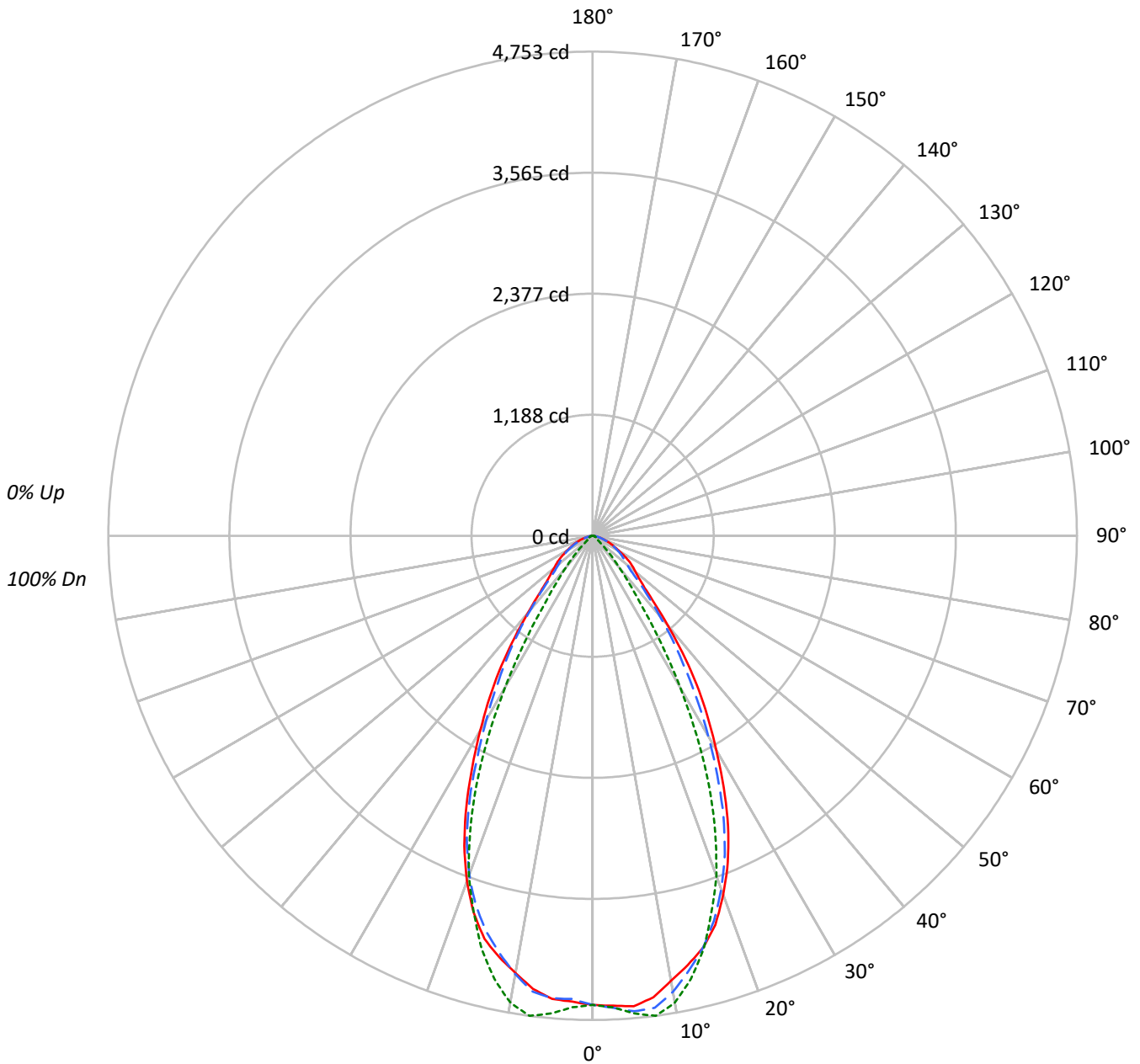
Lumens per Lamp: N/A
Luminaire Lumens: 4689.0 lumens
Efficiency: N/A
Efficacy: 80.3 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.87 / 0.88
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 58.4
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	112	109	106	104	110	107	105	102	103	101	99	99	98	96	96	94	93	91																			
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	83																			
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76																			
4	94	85	79	74	92	84	78	74	82	77	73	80	76	72	78	74	71	70																			
5	89	79	73	68	87	78	72	68	76	71	67	75	70	66	73	69	66	64																			
6	84	74	67	62	82	73	67	62	71	66	62	70	65	61	69	64	61	59																			
7	79	69	62	58	78	68	62	58	67	61	57	66	61	57	65	60	57	55																			
8	75	65	58	54	74	64	58	54	63	57	53	62	57	53	61	56	53	51																			
9	71	61	55	50	70	60	54	50	59	54	50	58	53	50	58	53	50	48																			
10	68	57	51	47	67	57	51	47	56	51	47	55	50	47	55	50	47	45																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	252491	252491	252491
5°	255134	259002	251138
10°	246867	258997	242564
15°	237601	238531	232550
20°	218676	207195	210473
25°	190311	163388	177276
30°	153486	108555	139249
35°	118996	55974	104574
40°	81646	29004	70418
45°	55944	14529	49400
50°	46557	6192	42361
55°	41872	5371	37839
60°	33133	5142	31598
65°	27344	4553	27046
70°	22151	4135	22151
75°	16373	4469	17368
80°	9629	3694	10355
85°	7359	4403	7359



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	438.4	9.4
10°-20°	1150.7	24.5
20°-30°	1313.5	28.0
30°-40°	871.1	18.6
40°-50°	420.1	9.0
50°-60°	258.4	5.5
60°-70°	156.4	3.3
70°-80°	65.8	1.4
80°-90°	14.5	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°	2902.7	61.9
0°-40°	3773.7	80.5
0°-60°	4452.3	95.0
0°-90°	4689.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4689.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4606	4606	4606	4606	4606	
5°	4636	4686	4707	4557	4564	436
15°	4186	4186	4203	4025	4098	1167
25°	3146	3041	2701	2858	2931	1427
35°	1778	1567	836	1462	1563	1100
45°	722	632	187	590	637	588
55°	438	356	56	356	396	385
65°	211	202	35	190	208	212
75°	77	77	21	73	82	83
85°	12	16	7	12	12	15
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°	4605.8	4605.8	4605.8	4605.8	4605.8	4605.8	4605.8	4605.8	4605.8
2.5°	4617.5	4624.6	4638.6	4641.0	4633.9	4589.4	4552.0	4566.0	4577.7
5°	4636.3	4650.3	4685.5	4718.3	4706.6	4631.6	4556.6	4554.3	4563.7
7.5°	4568.4	4601.2	4673.8	4755.8	4753.4	4624.6	4514.5	4486.4	4486.4
10°	4434.8	4465.3	4544.9	4655.0	4652.7	4491.0	4369.2	4355.2	4357.5
12.5°	4315.3	4329.4	4369.2	4455.9	4455.9	4296.6	4202.9	4216.9	4235.7
15°	4186.5	4195.9	4186.5	4214.6	4202.9	4071.7	4024.8	4069.3	4097.5
17.5°	4003.8	4008.4	3959.2	3921.8	3877.2	3795.2	3807.0	3872.6	3879.6
20°	3748.4	3778.8	3689.8	3593.8	3551.6	3474.3	3539.9	3612.5	3607.8
22.5°	3467.3	3502.4	3387.6	3228.3	3141.6	3111.2	3228.3	3293.9	3291.6
25°	3146.3	3172.1	3040.9	2818.3	2701.2	2696.5	2858.1	2926.1	2930.8
27.5°	2785.5	2794.9	2647.3	2356.8	2211.6	2246.7	2450.5	2544.2	2555.9
30°	2424.7	2420.1	2267.8	1907.0	1714.9	1810.9	2085.0	2188.1	2199.8
32.5°	2094.4	2080.4	1907.0	1475.9	1246.3	1389.2	1750.0	1857.8	1876.5
35°	1778.1	1754.7	1567.3	1091.7	836.4	1049.5	1461.9	1555.6	1562.6
37.5°	1447.8	1436.1	1288.5	817.6	583.3	796.5	1192.5	1260.4	1253.4
40°	1140.9	1140.9	1019.1	606.8	405.3	592.7	944.1	1005.0	984.0
42.5°	894.9	906.6	803.6	447.5	288.2	440.4	747.3	803.6	780.1
45°	721.6	721.6	632.5	332.7	187.4	328.0	590.4	641.9	637.2
47.5°	611.5	602.1	513.1	243.6	103.1	246.0	496.7	559.9	557.6
50°	545.9	531.8	440.4	192.1	72.6	203.8	435.8	494.3	496.7
52.5°	494.3	473.2	395.9	171.0	63.3	178.0	395.9	442.8	442.8
55°	438.1	426.4	356.1	152.3	56.2	159.3	356.1	398.3	395.9
57.5°	370.2	367.8	318.6	138.2	51.5	140.6	318.6	344.4	335.0
60°	302.2	311.6	276.4	124.2	46.9	126.5	271.8	292.8	288.2
62.5°	253.0	264.7	241.3	110.1	39.8	112.5	229.6	250.7	246.0
65°	210.8	220.2	201.5	93.7	35.1	93.7	189.8	208.5	208.5
67.5°	173.4	180.4	166.3	77.3	30.5	77.3	154.6	171.0	173.4
70°	138.2	142.9	131.2	60.9	25.8	63.3	121.8	138.2	138.2
72.5°	107.8	110.1	103.1	49.2	23.4	49.2	93.7	107.8	107.8
75°	77.3	82.0	77.3	37.5	21.1	37.5	72.6	79.7	82.0
77.5°	44.5	56.2	56.2	30.5	16.4	28.1	51.5	53.9	53.9
80°	30.5	35.1	39.8	21.1	11.7	21.1	32.8	35.1	32.8
82.5°	21.1	23.4	23.4	14.1	9.4	14.1	21.1	23.4	21.1
85°	11.7	16.4	16.4	11.7	7.0	9.4	11.7	14.1	11.7
87.5°	7.0	9.4	11.7	9.4	7.0	7.0	7.0	7.0	4.7
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)