

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: P799773

Luminaire Tested: **LD6C50D010 EU6509027 6LBMDDWH**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P799773
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 EU6509027 6LBMDDWH
Description: 6 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 6LBMDDW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

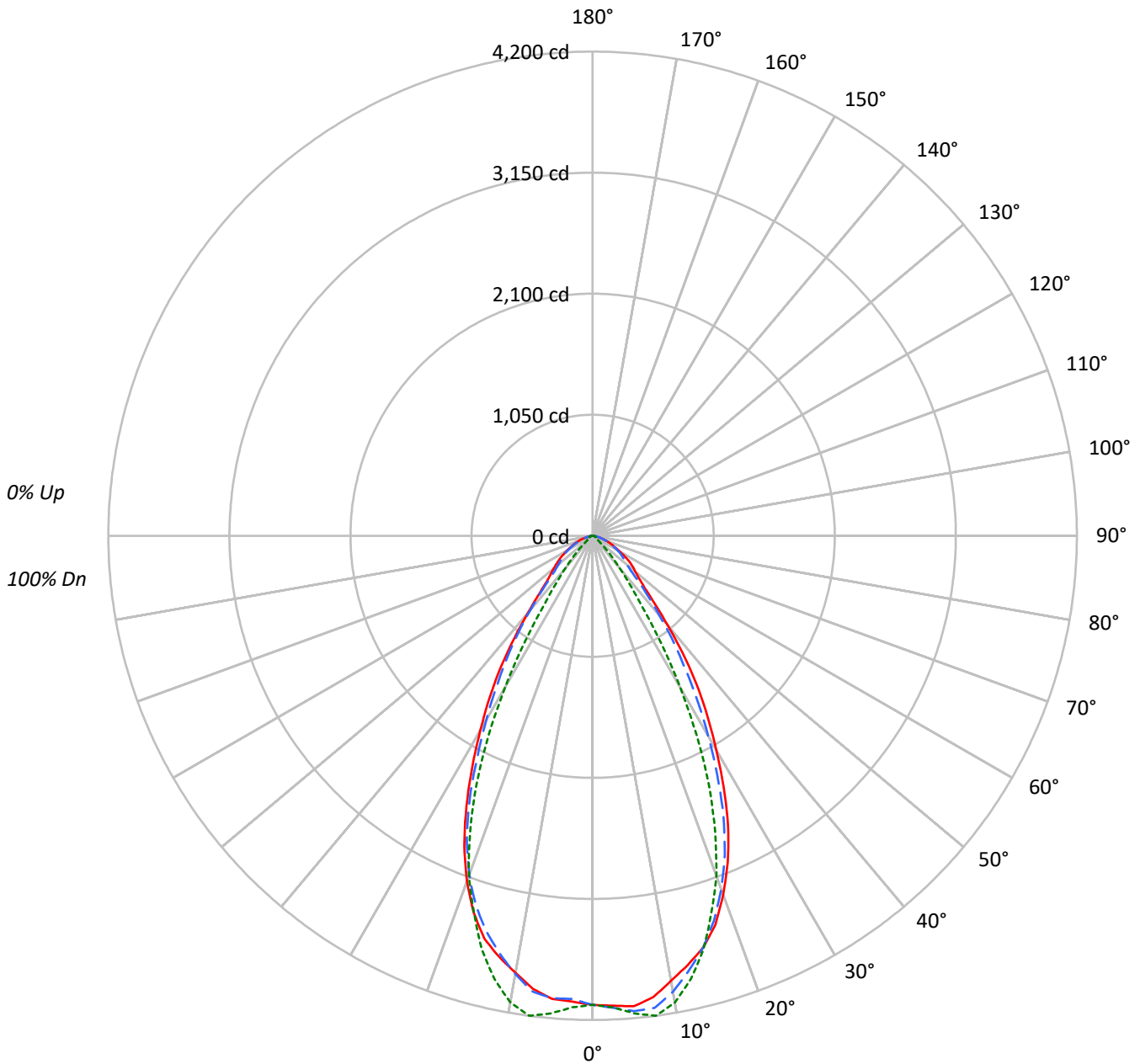
Lumens per Lamp: N/A
Luminaire Lumens: 4143.0 lumens
Efficiency: N/A
Efficacy: 70.9 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.87 / 0.88
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	223091	223091	223091
5°	225423	228840	221896
10°	218121	228837	214319
15°	209933	210756	205467
20°	193211	183066	185965
25°	168149	144365	156632
30°	135616	95913	123038
35°	105143	49456	92401
40°	72142	25627	62217
45°	49424	12839	43648
50°	41133	5475	37423
55°	36997	4750	33433
60°	29274	4539	27914
65°	24166	4021	23894
70°	19571	3654	19571
75°	14467	3940	15335
80°	8492	3252	9155
85°	6479	3900	6479



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	387.4	9.4
10°-20°	1016.7	24.5
20°-30°	1160.5	28.0
30°-40°	769.6	18.6
40°-50°	371.2	9.0
50°-60°	228.3	5.5
60°-70°	138.2	3.3
70°-80°	58.1	1.4
80°-90°	12.8	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°	2564.7	61.9
0°-40°	3334.3	80.5
0°-60°	3933.9	95.0
0°-90°	4143.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4143.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4070	4070	4070	4070	4070	
5°	4096	4140	4158	4026	4032	385
15°	3699	3699	3714	3556	3620	1031
25°	2780	2687	2387	2525	2590	1261
35°	1571	1385	739	1292	1381	972
45°	638	559	166	522	563	520
55°	387	315	50	315	350	340
65°	186	178	31	168	184	187
75°	68	68	19	64	72	73
85°	10	14	6	10	10	13
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°	4069.5	4069.5	4069.5	4069.5	4069.5	4069.5	4069.5	4069.5	4069.5
2.5°	4079.9	4086.1	4098.5	4100.6	4094.4	4055.0	4021.9	4034.3	4044.7
5°	4096.4	4108.8	4139.9	4168.9	4158.5	4092.3	4026.1	4024.0	4032.3
7.5°	4036.4	4065.4	4129.5	4202.0	4199.9	4086.1	3988.8	3964.0	3964.0
10°	3918.4	3945.3	4015.7	4113.0	4110.9	3968.1	3860.5	3848.0	3850.1
12.5°	3812.8	3825.3	3860.5	3937.0	3937.0	3796.3	3713.5	3725.9	3742.5
15°	3699.0	3707.3	3699.0	3723.8	3713.5	3597.6	3556.2	3595.5	3620.3
17.5°	3537.5	3541.7	3498.2	3465.1	3425.8	3353.3	3363.7	3421.6	3427.8
20°	3311.9	3338.8	3260.2	3175.3	3138.0	3069.7	3127.7	3191.9	3187.7
22.5°	3063.5	3094.6	2993.1	2852.4	2775.8	2748.9	2852.4	2910.3	2908.3
25°	2779.9	2802.7	2686.8	2490.1	2386.7	2382.5	2525.3	2585.4	2589.5
27.5°	2461.2	2469.4	2339.0	2082.4	1954.0	1985.1	2165.2	2248.0	2258.3
30°	2142.4	2138.3	2003.7	1684.9	1515.2	1600.1	1842.3	1933.3	1943.7
32.5°	1850.5	1838.1	1684.9	1304.1	1101.2	1227.5	1546.3	1641.5	1658.0
35°	1571.1	1550.4	1384.8	964.6	739.0	927.3	1291.6	1374.4	1380.7
37.5°	1279.2	1268.9	1138.5	722.4	515.4	703.8	1053.6	1113.6	1107.4
40°	1008.1	1008.1	900.4	536.1	358.1	523.7	834.2	888.0	869.4
42.5°	790.7	801.1	710.0	395.4	254.6	389.2	660.3	710.0	689.3
45°	637.5	637.5	558.9	293.9	165.6	289.8	521.6	567.2	563.0
47.5°	540.3	532.0	453.3	215.3	91.1	217.3	438.8	494.7	492.6
50°	482.3	469.9	389.2	169.7	64.2	180.1	385.0	436.8	438.8
52.5°	436.8	418.1	349.8	151.1	55.9	157.3	349.8	391.2	391.2
55°	387.1	376.7	314.6	134.5	49.7	140.8	314.6	351.9	349.8
57.5°	327.1	325.0	281.5	122.1	45.5	124.2	281.5	304.3	296.0
60°	267.0	275.3	244.3	109.7	41.4	111.8	240.1	258.7	254.6
62.5°	223.6	233.9	213.2	97.3	35.2	99.4	202.9	221.5	217.3
65°	186.3	194.6	178.0	82.8	31.0	82.8	167.7	184.2	184.2
67.5°	153.2	159.4	147.0	68.3	26.9	68.3	136.6	151.1	153.2
70°	122.1	126.3	115.9	53.8	22.8	55.9	107.6	122.1	122.1
72.5°	95.2	97.3	91.1	43.5	20.7	43.5	82.8	95.2	95.2
75°	68.3	72.4	68.3	33.1	18.6	33.1	64.2	70.4	72.4
77.5°	39.3	49.7	49.7	26.9	14.5	24.8	45.5	47.6	47.6
80°	26.9	31.0	35.2	18.6	10.3	18.6	29.0	31.0	29.0
82.5°	18.6	20.7	20.7	12.4	8.3	12.4	18.6	20.7	18.6
85°	10.3	14.5	14.5	10.3	6.2	8.3	10.3	12.4	10.3
87.5°	6.2	8.3	10.3	8.3	6.2	6.2	6.2	6.2	4.1
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)