

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: P799763

Luminaire Tested: **LD6C45D010 EU6459050 6LBMDDWMW**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P799763
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: LD6C45D010 EU6459050 6LBMDDWMW
Description: 6 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 6LBMDDW TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Summary

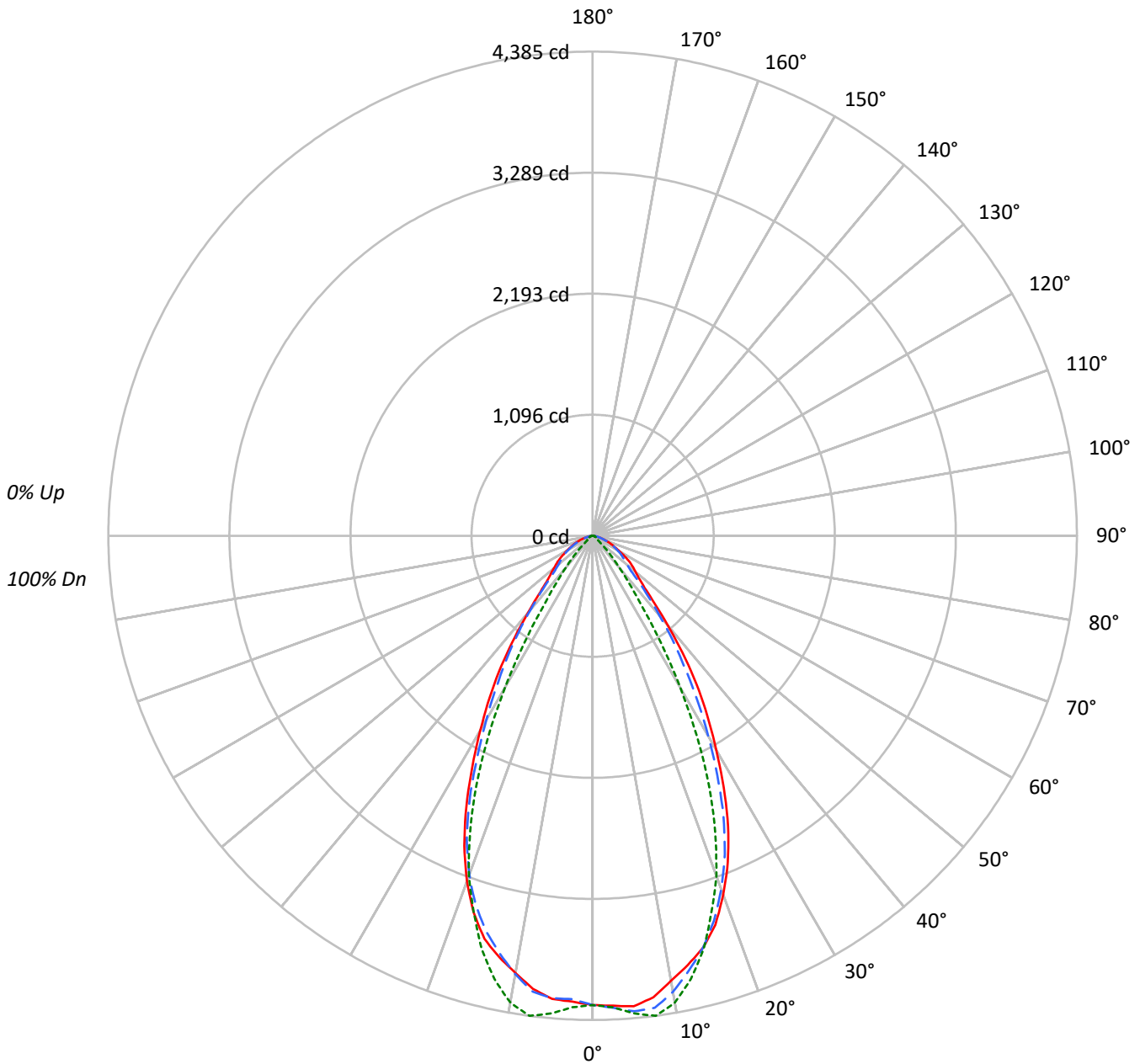
Lumens per Lamp: N/A
Luminaire Lumens: 4326.0 lumens
Efficiency: N/A
Efficacy: 87.2 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.87 / 0.88
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 49.6
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								
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°	232947	232947	232947
5°	235383	238949	231697
10°	227757	238946	223788
15°	219207	220064	214547
20°	201746	191157	194179
25°	175577	150741	163552
30°	141604	100148	128469
35°	109787	51638	96476
40°	75327	26757	64965
45°	51610	13404	45578
50°	42950	5714	39078
55°	38632	4960	34914
60°	30568	4736	29142
65°	25230	4203	24957
70°	20436	3815	20436
75°	15102	4130	16013
80°	8871	3410	9566
85°	6793	4088	6793



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	404.5	9.4
10°-20°	1061.6	24.5
20°-30°	1211.8	28.0
30°-40°	803.6	18.6
40°-50°	387.6	9.0
50°-60°	238.4	5.5
60°-70°	144.3	3.3
70°-80°	60.7	1.4
80°-90°	13.4	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°	2677.9	61.9
0°-40°	3481.6	80.5
0°-60°	4107.6	95.0
0°-90°	4326.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4326.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4249	4249	4249	4249	4249	
5°	4277	4323	4342	4204	4210	402
15°	3862	3862	3878	3713	3780	1076
25°	2903	2806	2492	2637	2704	1316
35°	1640	1446	772	1349	1442	1015
45°	666	584	173	545	588	543
55°	404	328	52	328	365	355
65°	194	186	32	175	192	195
75°	71	71	20	67	76	76
85°	11	15	6	11	11	14
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°	4249.3	4249.3	4249.3	4249.3	4249.3	4249.3	4249.3	4249.3	4249.3
2.5°	4260.1	4266.6	4279.5	4281.7	4275.2	4234.1	4199.6	4212.5	4223.3
5°	4277.4	4290.3	4322.8	4353.0	4342.2	4273.0	4203.9	4201.7	4210.4
7.5°	4214.7	4245.0	4312.0	4387.6	4385.4	4266.6	4165.0	4139.0	4139.0
10°	4091.5	4119.6	4193.1	4294.7	4292.5	4143.4	4031.0	4018.0	4020.2
12.5°	3981.3	3994.2	4031.0	4110.9	4110.9	3964.0	3877.5	3890.5	3907.8
15°	3862.4	3871.0	3862.4	3888.3	3877.5	3756.5	3713.3	3754.3	3780.3
17.5°	3693.8	3698.1	3652.7	3618.2	3577.1	3501.4	3512.2	3572.8	3579.2
20°	3458.2	3486.3	3404.2	3315.6	3276.7	3205.3	3265.8	3332.8	3328.5
22.5°	3198.8	3231.3	3125.4	2978.4	2898.4	2870.3	2978.4	3038.9	3036.7
25°	2902.7	2926.5	2805.5	2600.1	2492.1	2487.7	2636.9	2699.6	2703.9
27.5°	2569.9	2578.5	2442.4	2174.3	2040.3	2072.8	2260.8	2347.3	2358.1
30°	2237.0	2232.7	2092.2	1759.4	1582.1	1670.7	1923.6	2018.7	2029.5
32.5°	1932.3	1919.3	1759.4	1361.7	1149.9	1281.7	1614.6	1714.0	1731.3
35°	1640.5	1618.9	1446.0	1007.2	771.6	968.3	1348.7	1435.2	1441.6
37.5°	1335.7	1324.9	1188.8	754.3	538.2	734.9	1100.1	1162.8	1156.3
40°	1052.6	1052.6	940.2	559.8	373.9	546.8	871.0	927.2	907.8
42.5°	825.6	836.5	741.4	412.8	265.8	406.3	689.5	741.4	719.7
45°	665.7	665.7	583.6	306.9	172.9	302.6	544.7	592.2	587.9
47.5°	564.1	555.5	473.3	224.8	95.1	226.9	458.2	516.6	514.4
50°	503.6	490.6	406.3	177.2	67.0	188.0	402.0	456.1	458.2
52.5°	456.1	436.6	365.3	157.8	58.4	164.3	365.3	408.5	408.5
55°	404.2	393.4	328.5	140.5	51.9	147.0	328.5	367.4	365.3
57.5°	341.5	339.3	293.9	127.5	47.6	129.7	293.9	317.7	309.1
60°	278.8	287.5	255.0	114.6	43.2	116.7	250.7	270.2	265.8
62.5°	233.4	244.2	222.6	101.6	36.7	103.7	211.8	231.3	226.9
65°	194.5	203.2	185.9	86.5	32.4	86.5	175.1	192.4	192.4
67.5°	159.9	166.4	153.5	71.3	28.1	71.3	142.7	157.8	159.9
70°	127.5	131.8	121.0	56.2	23.8	58.4	112.4	127.5	127.5
72.5°	99.4	101.6	95.1	45.4	21.6	45.4	86.5	99.4	99.4
75°	71.3	75.6	71.3	34.6	19.5	34.6	67.0	73.5	75.6
77.5°	41.1	51.9	51.9	28.1	15.1	25.9	47.6	49.7	49.7
80°	28.1	32.4	36.7	19.5	10.8	19.5	30.3	32.4	30.3
82.5°	19.5	21.6	21.6	13.0	8.6	13.0	19.5	21.6	19.5
85°	10.8	15.1	15.1	10.8	6.5	8.6	10.8	13.0	10.8
87.5°	6.5	8.6	10.8	8.6	6.5	6.5	6.5	6.5	4.3
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)