

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: P799737

Luminaire Tested: **LD6C45D010 EU6459035 6LBMDDWH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P799737
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 EU6459035 6LBMDDWH
Description: 6 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 6LBMDDW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

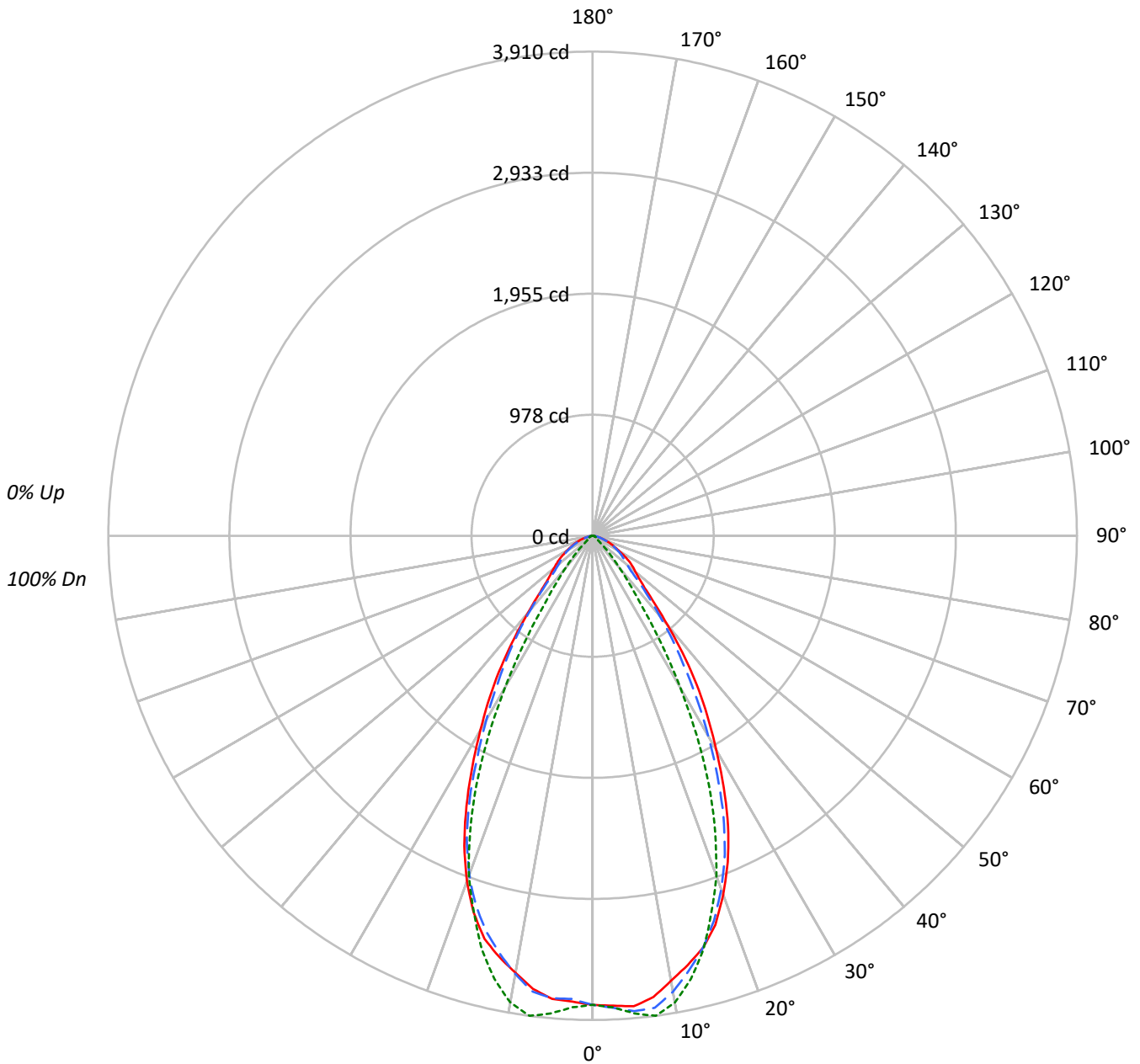
Lumens per Lamp: N/A
Luminaire Lumens: 3857.0 lumens
Efficiency: N/A
Efficacy: 77.8 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.87 / 0.88
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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									
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°	207692	207692	207692
5°	209861	213047	206576
10°	203063	213039	199523
15°	195438	196204	191284
20°	179875	170430	173131
25°	156541	134397	145817
30°	126254	89292	114543
35°	97882	46043	86016
40°	67162	23859	57923
45°	46013	11955	40640
50°	38293	5092	34839
55°	34446	4416	31129
60°	27257	4221	25985
65°	22493	3749	22246
70°	18224	3398	18224
75°	13471	3664	14276
80°	7924	3031	8524
85°	6038	3648	6038



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	360.6	9.4
10°-20°	946.6	24.5
20°-30°	1080.4	28.0
30°-40°	716.5	18.6
40°-50°	345.6	9.0
50°-60°	212.6	5.5
60°-70°	128.6	3.3
70°-80°	54.1	1.4
80°-90°	11.9	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°	2387.6	61.9
0°-40°	3104.1	80.5
0°-60°	3662.3	95.0
0°-90°	3857.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3857.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3789	3789	3789	3789	3789	
5°	3814	3854	3872	3748	3754	358
15°	3444	3444	3457	3311	3370	960
25°	2588	2501	2222	2351	2411	1174
35°	1463	1289	688	1202	1285	905
45°	594	520	154	486	524	484
55°	360	293	46	293	326	317
65°	173	166	29	156	172	174
75°	64	64	17	60	67	68
85°	10	14	6	10	10	12
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°	3788.6	3788.6	3788.6	3788.6	3788.6	3788.6	3788.6	3788.6	3788.6
2.5°	3798.2	3804.0	3815.6	3817.5	3811.7	3775.1	3744.3	3755.8	3765.5
5°	3813.6	3825.2	3854.1	3881.1	3871.5	3809.8	3748.1	3746.2	3753.9
7.5°	3757.8	3784.7	3844.5	3911.9	3910.0	3804.0	3713.4	3690.3	3690.3
10°	3647.9	3673.0	3738.5	3829.1	3827.1	3694.2	3594.0	3582.4	3584.3
12.5°	3549.6	3561.2	3594.0	3665.3	3665.3	3534.2	3457.1	3468.7	3484.1
15°	3443.6	3451.4	3443.6	3466.8	3457.1	3349.2	3310.7	3347.3	3370.4
17.5°	3293.3	3297.2	3256.7	3225.9	3189.3	3121.8	3131.5	3185.4	3191.2
20°	3083.3	3108.3	3035.1	2956.1	2921.4	2857.8	2911.8	2971.5	2967.7
22.5°	2852.0	2880.9	2786.5	2655.5	2584.2	2559.1	2655.5	2709.4	2707.5
25°	2588.0	2609.2	2501.3	2318.2	2221.9	2218.0	2351.0	2406.9	2410.7
27.5°	2291.3	2299.0	2177.6	1938.6	1819.1	1848.0	2015.7	2092.8	2102.4
30°	1994.5	1990.6	1865.4	1568.6	1410.6	1489.6	1715.1	1799.9	1809.5
32.5°	1722.8	1711.2	1568.6	1214.0	1025.2	1142.7	1439.5	1528.2	1543.6
35°	1462.6	1443.4	1289.2	898.0	688.0	863.3	1202.5	1279.6	1285.3
37.5°	1190.9	1181.3	1059.9	672.5	479.8	655.2	980.9	1036.8	1031.0
40°	938.5	938.5	838.3	499.1	333.4	487.5	776.6	826.7	809.4
42.5°	736.1	745.8	661.0	368.1	237.0	362.3	614.7	661.0	641.7
45°	593.5	593.5	520.3	273.6	154.2	269.8	485.6	528.0	524.2
47.5°	503.0	495.3	422.0	200.4	84.8	202.3	408.5	460.6	458.6
50°	449.0	437.4	362.3	158.0	59.7	167.7	358.4	406.6	408.5
52.5°	406.6	389.3	325.7	140.7	52.0	146.5	325.7	364.2	364.2
55°	360.4	350.7	292.9	125.3	46.2	131.0	292.9	327.6	325.7
57.5°	304.5	302.5	262.1	113.7	42.4	115.6	262.1	283.3	275.6
60°	248.6	256.3	227.4	102.1	38.5	104.1	223.5	240.9	237.0
62.5°	208.1	217.8	198.5	90.6	32.8	92.5	188.9	206.2	202.3
65°	173.4	181.1	165.7	77.1	28.9	77.1	156.1	171.5	171.5
67.5°	142.6	148.4	136.8	63.6	25.1	63.6	127.2	140.7	142.6
70°	113.7	117.6	107.9	50.1	21.2	52.0	100.2	113.7	113.7
72.5°	88.6	90.6	84.8	40.5	19.3	40.5	77.1	88.6	88.6
75°	63.6	67.4	63.6	30.8	17.3	30.8	59.7	65.5	67.4
77.5°	36.6	46.2	46.2	25.1	13.5	23.1	42.4	44.3	44.3
80°	25.1	28.9	32.8	17.3	9.6	17.3	27.0	28.9	27.0
82.5°	17.3	19.3	19.3	11.6	7.7	11.6	17.3	19.3	17.3
85°	9.6	13.5	13.5	9.6	5.8	7.7	9.6	11.6	9.6
87.5°	5.8	7.7	9.6	7.7	5.8	5.8	5.8	5.8	3.9
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)