

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: P799726

Luminaire Tested: **LD6C45D010 EU6459030 6LBMDDWLI**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P799726
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 EU6459030 6LBMDDWLI
Description: 6 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 6LBMDDW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

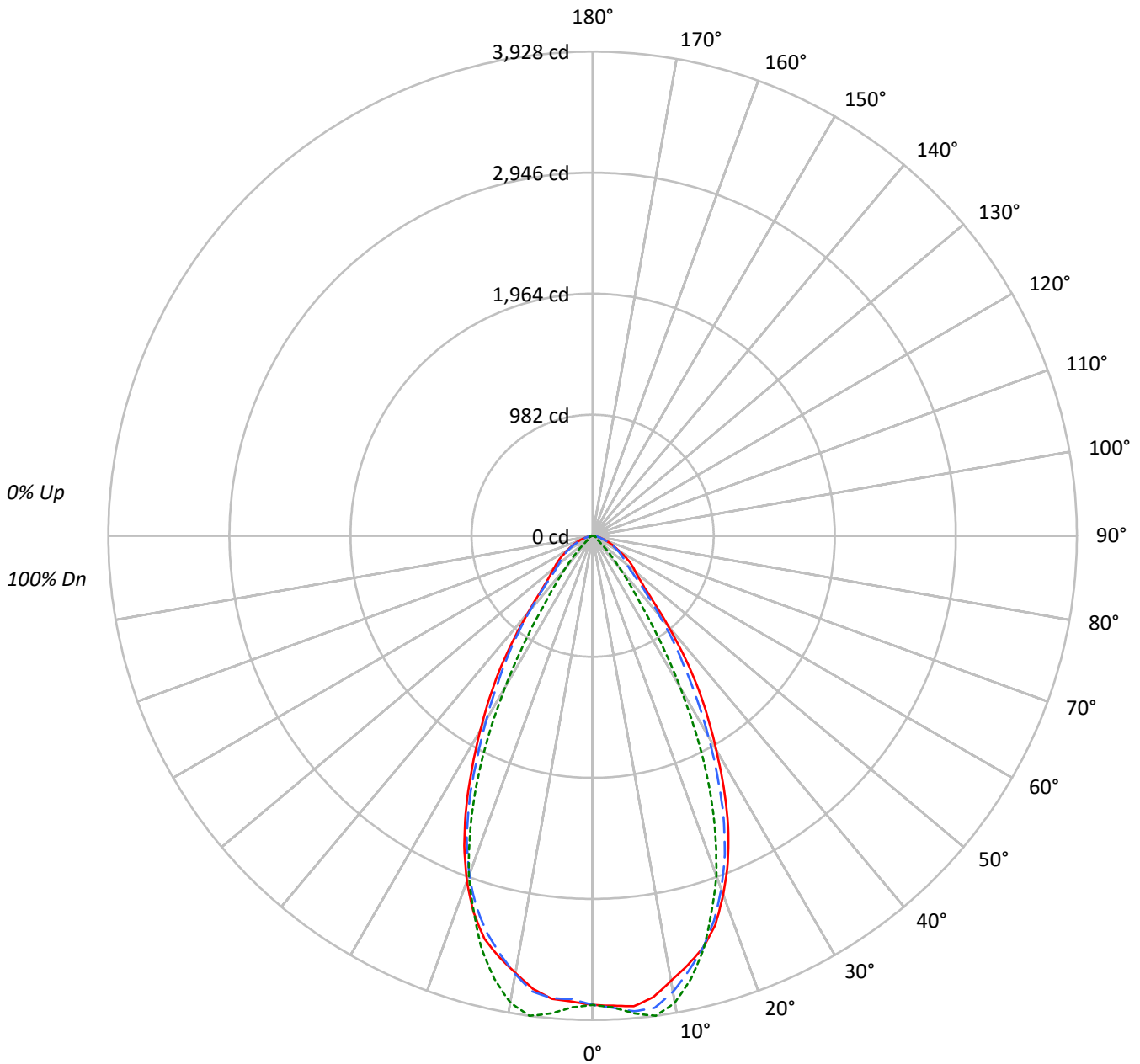
Lumens per Lamp: N/A
Luminaire Lumens: 3875.0 lumens
Efficiency: N/A
Efficacy: 78.1 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.87 / 0.88
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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°	208662	208662	208662
5°	210840	214038	207539
10°	204010	214035	200458
15°	196352	197124	192180
20°	180715	171229	173936
25°	157273	135026	146500
30°	126842	89710	115081
35°	98343	46257	86418
40°	67476	23966	58188
45°	46230	12009	40826
50°	38472	5117	35001
55°	34599	4444	31272
60°	27388	4243	26105
65°	22596	3762	22350
70°	18304	3414	18304
75°	13535	3685	14361
80°	7956	3062	8555
85°	6101	3648	6101



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	362.3	9.4
10°-20°	951.0	24.5
20°-30°	1085.5	28.0
30°-40°	719.9	18.6
40°-50°	347.2	9.0
50°-60°	213.6	5.5
60°-70°	129.2	3.3
70°-80°	54.4	1.4
80°-90°	12.0	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°	2398.8	61.9
0°-40°	3118.6	80.5
0°-60°	3679.4	95.0
0°-90°	3875.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3875.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3806	3806	3806	3806	3806	
5°	3831	3872	3890	3766	3771	360
15°	3460	3460	3473	3326	3386	964
25°	2600	2513	2232	2362	2422	1179
35°	1470	1295	691	1208	1291	909
45°	596	523	155	488	527	486
55°	362	294	46	294	327	318
65°	174	166	29	157	172	175
75°	64	64	17	60	68	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°	3806.3	3806.3	3806.3	3806.3	3806.3	3806.3	3806.3	3806.3	3806.3
2.5°	3816.0	3821.8	3833.4	3835.3	3829.5	3792.7	3761.7	3773.4	3783.0
5°	3831.4	3843.1	3872.1	3899.2	3889.5	3827.6	3765.6	3763.7	3771.4
7.5°	3775.3	3802.4	3862.4	3930.2	3928.2	3821.8	3730.8	3707.5	3707.5
10°	3664.9	3690.1	3755.9	3846.9	3845.0	3711.4	3610.7	3599.1	3601.1
12.5°	3566.2	3577.8	3610.7	3682.4	3682.4	3550.7	3473.3	3484.9	3500.4
15°	3459.7	3467.5	3459.7	3483.0	3473.3	3364.9	3326.1	3362.9	3386.2
17.5°	3308.7	3312.6	3271.9	3240.9	3204.2	3136.4	3146.1	3200.3	3206.1
20°	3097.7	3122.8	3049.3	2969.9	2935.1	2871.2	2925.4	2985.4	2981.5
22.5°	2865.4	2894.4	2799.5	2667.9	2596.2	2571.1	2667.9	2722.1	2720.1
25°	2600.1	2621.4	2513.0	2329.1	2232.3	2228.4	2362.0	2418.1	2422.0
27.5°	2302.0	2309.7	2187.7	1947.7	1827.6	1856.7	2025.1	2102.5	2112.2
30°	2003.8	1999.9	1874.1	1575.9	1417.2	1496.6	1723.1	1808.3	1818.0
32.5°	1730.8	1719.2	1575.9	1219.7	1030.0	1148.1	1446.2	1535.3	1550.8
35°	1469.5	1450.1	1295.2	902.2	691.2	867.4	1208.1	1285.5	1291.3
37.5°	1196.5	1186.8	1064.8	675.7	482.1	658.3	985.4	1041.6	1035.8
40°	942.9	942.9	842.2	501.4	334.9	489.8	780.2	830.6	813.1
42.5°	739.6	749.3	664.1	369.8	238.1	364.0	617.6	664.1	644.7
45°	596.3	596.3	522.7	274.9	154.9	271.0	487.9	530.5	526.6
47.5°	505.3	497.6	424.0	201.3	85.2	203.3	410.4	462.7	460.8
50°	451.1	439.5	364.0	158.8	60.0	168.4	360.1	408.5	410.4
52.5°	408.5	391.1	327.2	141.3	52.3	147.1	327.2	365.9	365.9
55°	362.0	352.4	294.3	125.8	46.5	131.7	294.3	329.1	327.2
57.5°	305.9	304.0	263.3	114.2	42.6	116.2	263.3	284.6	276.9
60°	249.8	257.5	228.5	102.6	38.7	104.5	224.6	242.0	238.1
62.5°	209.1	218.8	199.4	91.0	32.9	92.9	189.7	207.2	203.3
65°	174.2	182.0	166.5	77.4	29.0	77.4	156.8	172.3	172.3
67.5°	143.3	149.1	137.5	63.9	25.2	63.9	127.8	141.3	143.3
70°	114.2	118.1	108.4	50.3	21.3	52.3	100.7	114.2	114.2
72.5°	89.1	91.0	85.2	40.7	19.4	40.7	77.4	89.1	89.1
75°	63.9	67.8	63.9	31.0	17.4	31.0	60.0	65.8	67.8
77.5°	36.8	46.5	46.5	25.2	13.6	23.2	42.6	44.5	44.5
80°	25.2	29.0	32.9	17.4	9.7	17.4	27.1	29.0	27.1
82.5°	17.4	19.4	19.4	11.6	7.7	11.6	17.4	19.4	17.4
85°	9.7	13.6	13.6	9.7	5.8	7.7	9.7	11.6	9.7
87.5°	5.8	7.7	9.7	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)