

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: P800056

Luminaire Tested: **LD6C70D010 EU6709040 6LBMDSWLI**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P800056
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2309-186-5)
Test Lab: INNOVATION CENTER
Issue Date: 4/12/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD6C70D010 EU6709040 6LBMDSWLI
Description: 6 INCH 7000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 6LBMDSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

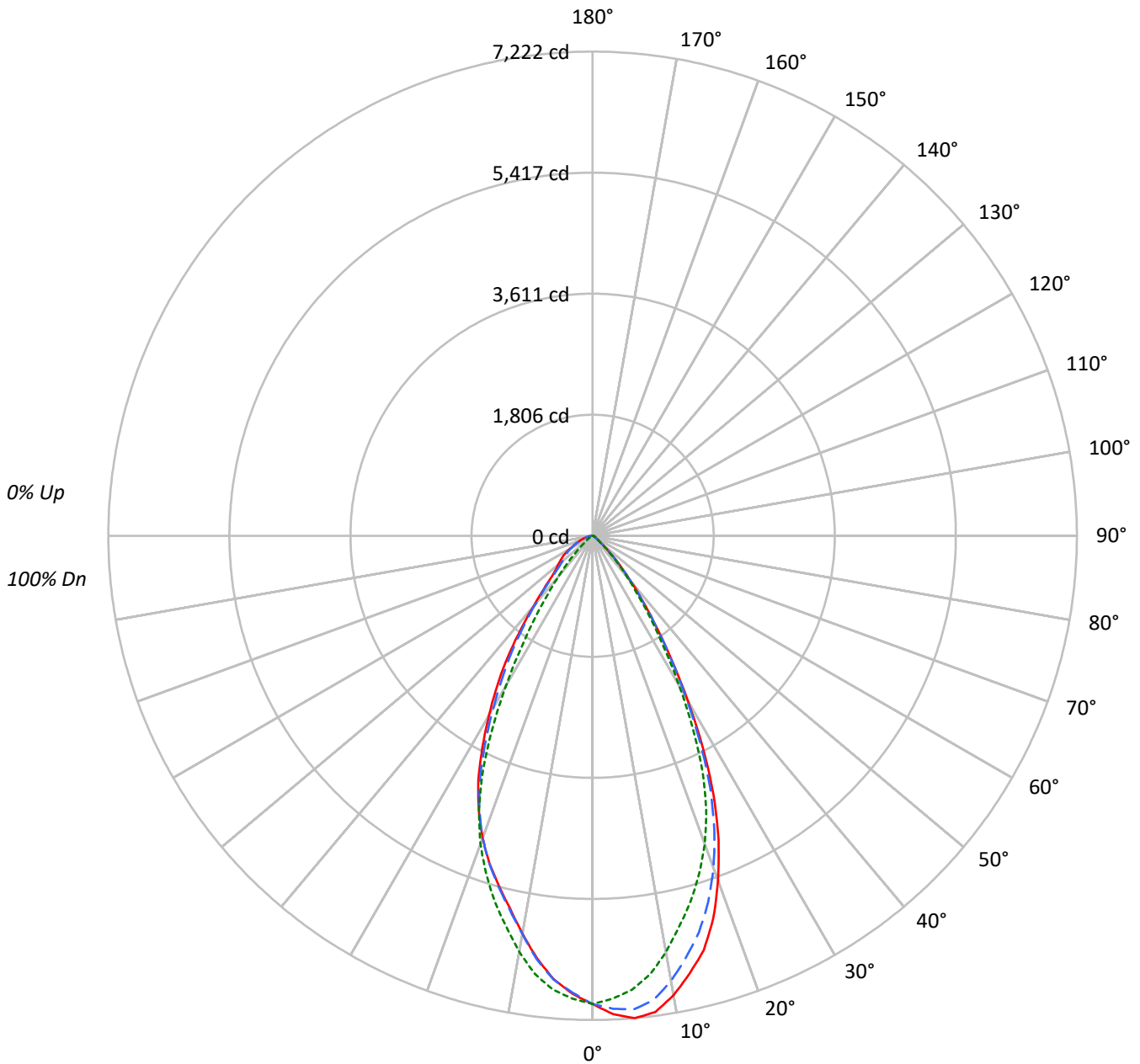
Lumens per Lamp: N/A
Luminaire Lumens: 6013.0 lumens
Efficiency: N/A
Efficacy: 77.1 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 78
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	113	110	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92																			
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85																			
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78																			
4	96	88	82	77	94	87	81	77	84	80	76	82	78	75	80	77	74	73																			
5	91	82	76	71	89	81	75	71	79	74	70	77	73	70	76	72	69	67																			
6	86	77	70	66	84	76	70	66	74	69	65	73	68	65	71	67	64	63																			
7	82	72	66	61	80	71	65	61	70	65	61	69	64	60	68	63	60	59																			
8	78	68	61	57	76	67	61	57	66	61	57	65	60	57	64	60	56	55																			
9	74	64	58	54	73	63	58	54	62	57	53	61	57	53	61	56	53	52																			
10	70	60	54	50	69	60	54	50	59	54	50	58	53	50	58	53	50	49																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	382864	382864	382864
5°	397424	373882	365424
10°	387262	350700	335270
15°	363197	320450	306597
20°	318849	285275	279826
25°	257876	234370	244024
30°	179281	163259	195302
35°	110497	100010	147398
40°	62531	56062	97891
45°	30367	28964	66805
50°	11565	11565	56791
55°	6337	7484	52414
60°	4627	5943	42946
65°	3904	5085	35179
70°	3382	4344	28979
75°	3198	4469	24888
80°	1894	3820	18058
85°	1887	7611	17046



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	639.4	10.6
10°-20°	1607.0	26.7
20°-30°	1809.0	30.1
30°-40°	1120.2	18.6
40°-50°	446.1	7.4
50°-60°	203.1	3.4
60°-70°	116.7	1.9
70°-80°	55.4	0.9
80°-90°	16.2	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°	4055.3	67.4
0°-40°	5175.5	86.1
0°-60°	5824.7	96.9
0°-90°	6013.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6013.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	6984	6984	6984	6984	6984	
5°	7222	7090	6794	6647	6640	680
15°	6400	6122	5646	5417	5402	1771
25°	4263	4149	3875	3971	4034	1916
35°	1651	1642	1494	2082	2202	1061
45°	392	392	374	814	862	332
55°	66	63	78	482	548	66
65°	30	27	39	268	271	29
75°	15	15	21	114	118	16
85°	3	3	12	27	27	2
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°	6984.0	6984.0	6984.0	6984.0	6984.0	6984.0	6984.0	6984.0	6984.0
2.5°	7143.7	7077.4	7062.4	7005.1	6908.7	6854.5	6821.3	6797.2	6839.4
5°	7222.0	7149.7	7089.5	6972.0	6794.2	6694.8	6646.6	6607.4	6640.5
7.5°	7164.8	7062.4	6981.0	6818.3	6592.3	6438.7	6372.4	6327.2	6357.3
10°	6956.9	6833.4	6740.0	6547.1	6300.1	6116.3	6034.9	5992.8	6022.9
12.5°	6685.7	6583.3	6441.7	6230.8	5965.6	5772.8	5712.6	5679.4	5691.5
15°	6399.5	6279.0	6122.3	5911.4	5646.3	5453.4	5417.3	5396.2	5402.2
17.5°	5983.7	5866.2	5730.6	5525.8	5281.7	5125.0	5125.0	5110.0	5119.0
20°	5465.5	5402.2	5269.7	5097.9	4890.0	4748.4	4793.6	4778.5	4796.6
22.5°	4905.1	4856.9	4742.4	4600.8	4426.0	4314.5	4414.0	4411.0	4435.1
25°	4263.3	4227.2	4148.8	4028.3	3874.7	3805.4	3971.1	3971.1	4034.3
27.5°	3555.3	3519.1	3464.9	3362.5	3235.9	3214.8	3458.9	3489.0	3558.3
30°	2832.2	2808.1	2777.9	2684.5	2579.1	2618.3	2955.7	3006.9	3085.3
32.5°	2187.4	2172.3	2163.3	2078.9	1985.5	2115.1	2500.8	2567.0	2645.4
35°	1651.1	1618.0	1642.1	1578.8	1494.4	1657.1	2081.9	2139.2	2202.5
37.5°	1217.2	1193.1	1214.2	1169.0	1093.7	1271.5	1672.2	1708.3	1750.5
40°	873.8	852.7	870.7	843.6	783.4	949.1	1310.6	1349.8	1367.9
42.5°	620.7	584.5	602.6	581.5	551.4	714.1	1030.4	1066.6	1072.6
45°	391.7	379.6	391.7	379.6	373.6	530.3	813.5	846.6	861.7
47.5°	238.0	223.0	223.0	216.9	223.0	391.7	671.9	720.1	744.2
50°	135.6	129.6	126.5	123.5	135.6	307.3	581.5	635.7	665.9
52.5°	90.4	87.4	87.4	84.4	99.4	259.1	524.3	572.5	602.6
55°	66.3	63.3	63.3	63.3	78.3	223.0	482.1	521.2	548.4
57.5°	51.2	51.2	51.2	48.2	66.3	189.8	430.9	451.9	473.0
60°	42.2	39.2	39.2	39.2	54.2	162.7	370.6	379.6	391.7
62.5°	33.1	33.1	33.1	33.1	45.2	144.6	319.4	319.4	325.4
65°	30.1	27.1	27.1	27.1	39.2	126.5	268.2	265.1	271.2
67.5°	24.1	24.1	24.1	24.1	33.1	108.5	219.9	216.9	223.0
70°	21.1	21.1	21.1	21.1	27.1	90.4	177.8	174.8	180.8
72.5°	18.1	18.1	18.1	18.1	24.1	75.3	141.6	141.6	144.6
75°	15.1	15.1	15.1	15.1	21.1	57.2	114.5	114.5	117.5
77.5°	12.1	12.1	12.1	12.1	15.1	45.2	87.4	84.4	84.4
80°	6.0	9.0	9.0	9.0	12.1	33.1	63.3	57.2	57.2
82.5°	3.0	6.0	6.0	6.0	12.1	24.1	42.2	39.2	39.2
85°	3.0	3.0	3.0	9.0	12.1	18.1	27.1	27.1	27.1
87.5°	0.0	3.0	6.0	12.1	15.1	15.1	18.1	15.1	15.1
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)