

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: P800044

Luminaire Tested: **LD6C70D010 EU6709035 6LBMDSWLI**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P800044
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 EU6709035 6LBMDSWLI
Description: 6 INCH 7000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 6LBMDSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

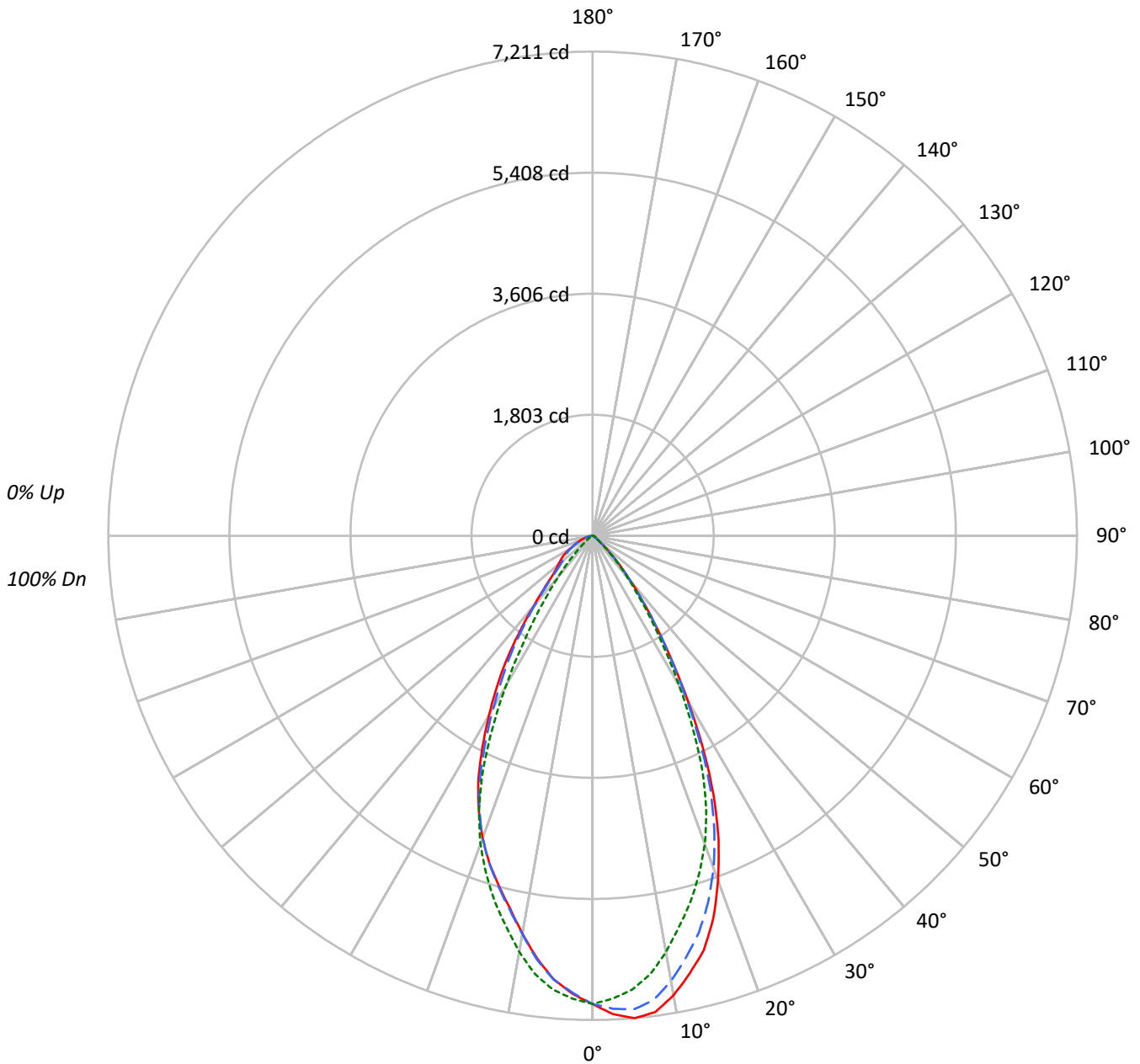
Lumens per Lamp: N/A
Luminaire Lumens: 6004.0 lumens
Efficiency: N/A
Efficacy: 77.0 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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°	382294	382294	382294
5°	396829	373321	364879
10°	386683	350177	334769
15°	362652	319968	306137
20°	318370	284849	279406
25°	257489	234020	243661
30°	179009	163012	195005
35°	110329	99863	147177
40°	62431	55976	97740
45°	30321	28918	66705
50°	11548	11548	56706
55°	6327	7474	52328
60°	4616	5943	42880
65°	3904	5072	35127
70°	3382	4344	28931
75°	3177	4469	24845
80°	1894	3788	18058
85°	1887	7548	17046



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	638.4	10.6
10°-20°	1604.6	26.7
20°-30°	1806.3	30.1
30°-40°	1118.5	18.6
40°-50°	445.4	7.4
50°-60°	202.8	3.4
60°-70°	116.6	1.9
70°-80°	55.3	0.9
80°-90°	16.1	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°	4049.3	67.4
0°-40°	5167.7	86.1
0°-60°	5815.9	96.9
0°-90°	6004.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6004.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	6974	6974	6974	6974	6974	
5°	7211	7079	6784	6637	6631	679
15°	6390	6113	5638	5409	5394	1768
25°	4257	4143	3869	3965	4028	1914
35°	1649	1640	1492	2079	2199	1059
45°	391	391	373	812	860	331
55°	66	63	78	481	548	66
65°	30	27	39	268	271	29
75°	15	15	21	114	117	15
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°	6973.6	6973.6	6973.6	6973.6	6973.6	6973.6	6973.6	6973.6	6973.6
2.5°	7133.0	7066.8	7051.8	6994.6	6898.4	6844.2	6811.1	6787.0	6829.2
5°	7211.2	7139.0	7078.9	6961.5	6784.0	6684.8	6636.6	6597.5	6630.6
7.5°	7154.1	7051.8	6970.6	6808.1	6582.5	6429.0	6362.9	6317.7	6347.8
10°	6946.5	6823.1	6729.9	6537.3	6290.7	6107.1	6025.9	5983.8	6013.9
12.5°	6675.7	6573.4	6432.0	6221.5	5956.7	5764.2	5704.0	5670.9	5682.9
15°	6389.9	6269.6	6113.2	5902.6	5637.8	5445.3	5409.2	5388.1	5394.1
17.5°	5974.8	5857.4	5722.1	5517.5	5273.8	5117.4	5117.4	5102.3	5111.3
20°	5457.3	5394.1	5261.8	5090.3	4882.7	4741.3	4786.4	4771.4	4789.4
22.5°	4897.7	4849.6	4735.3	4593.9	4419.4	4308.1	4407.4	4404.4	4428.4
25°	4256.9	4220.8	4142.6	4022.3	3868.9	3799.7	3965.1	3965.1	4028.3
27.5°	3550.0	3513.9	3459.7	3357.4	3231.1	3210.0	3453.7	3483.8	3553.0
30°	2827.9	2803.9	2773.8	2680.5	2575.2	2614.3	2951.3	3002.4	3080.6
32.5°	2184.1	2169.1	2160.1	2075.8	1982.6	2111.9	2497.0	2563.2	2641.4
35°	1648.6	1615.5	1639.6	1576.4	1492.2	1654.6	2078.8	2136.0	2199.2
37.5°	1215.4	1191.3	1212.4	1167.3	1092.1	1269.6	1669.7	1705.8	1747.9
40°	872.4	851.4	869.4	842.4	782.2	947.7	1308.7	1347.8	1365.8
42.5°	619.7	583.6	601.7	580.6	550.5	713.0	1028.9	1065.0	1071.0
45°	391.1	379.1	391.1	379.1	373.0	529.5	812.3	845.4	860.4
47.5°	237.7	222.6	222.6	216.6	222.6	391.1	670.9	719.0	743.1
50°	135.4	129.4	126.4	123.3	135.4	306.9	580.6	634.8	664.9
52.5°	90.3	87.2	87.2	84.2	99.3	258.7	523.5	571.6	601.7
55°	66.2	63.2	63.2	63.2	78.2	222.6	481.4	520.5	547.5
57.5°	51.1	51.1	51.1	48.1	66.2	189.5	430.2	451.3	472.3
60°	42.1	39.1	39.1	39.1	54.2	162.5	370.0	379.1	391.1
62.5°	33.1	33.1	33.1	33.1	45.1	144.4	318.9	318.9	324.9
65°	30.1	27.1	27.1	27.1	39.1	126.4	267.8	264.7	270.8
67.5°	24.1	24.1	24.1	24.1	33.1	108.3	219.6	216.6	222.6
70°	21.1	21.1	21.1	21.1	27.1	90.3	177.5	174.5	180.5
72.5°	18.1	18.1	18.1	18.1	24.1	75.2	141.4	141.4	144.4
75°	15.0	15.0	15.0	15.0	21.1	57.2	114.3	114.3	117.3
77.5°	12.0	12.0	12.0	12.0	15.0	45.1	87.2	84.2	84.2
80°	6.0	9.0	9.0	9.0	12.0	33.1	63.2	57.2	57.2
82.5°	3.0	6.0	6.0	6.0	12.0	24.1	42.1	39.1	39.1
85°	3.0	3.0	3.0	9.0	12.0	18.1	27.1	27.1	27.1
87.5°	0.0	3.0	6.0	12.0	15.0	15.0	18.1	15.0	15.0
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)