

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: P799660

Luminaire Tested: **LD6C40D010 EU6409027 6LBMDSWLI**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P799660
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: LD6C40D010 EU6409027 6LBMDSWLI
Description: 6 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 6LBMDSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

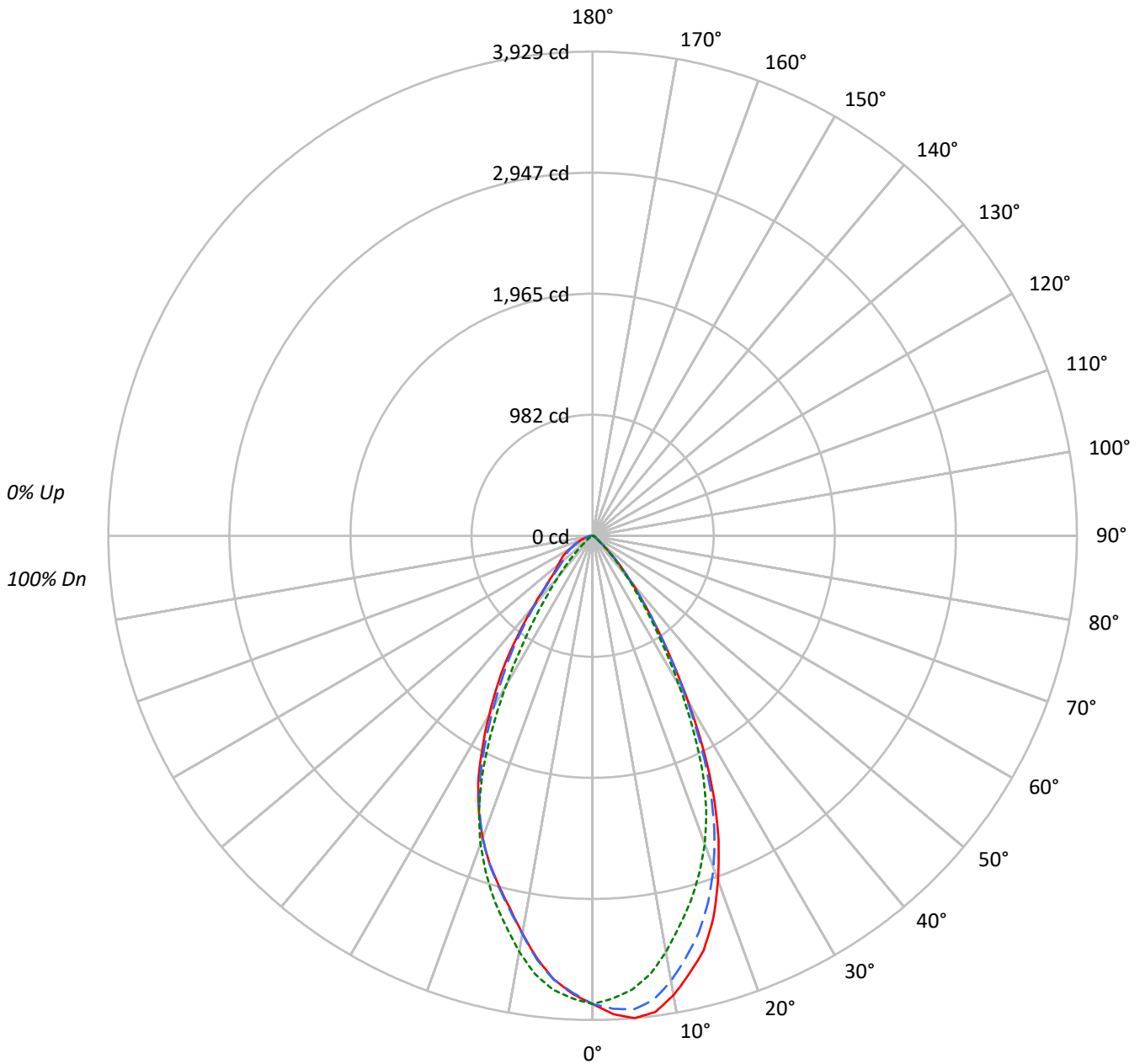
Lumens per Lamp: N/A
Luminaire Lumens: 3271.0 lumens
Efficiency: N/A
Efficacy: 69.6 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 47
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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92					92			
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85					85			
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78					78			
4	96	88	82	77	94	87	81	77	84	80	76	82	78	75	80	77	74	73					73			
5	91	82	76	71	89	81	75	71	79	74	70	77	73	70	76	72	69	67					67			
6	86	77	70	66	84	76	70	66	74	69	65	73	68	65	71	67	64	63					63			
7	82	72	66	61	80	71	65	61	70	65	61	69	64	60	68	63	60	59					59			
8	78	68	61	57	76	67	61	57	66	61	57	65	60	57	64	60	56	55					55			
9	74	64	58	54	73	63	58	54	62	57	53	61	57	53	61	56	53	52					52			
10	70	60	54	50	69	60	54	50	59	54	50	58	53	50	58	53	50	49					49			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	208273	208273	208273
5°	216195	203389	198789
10°	210667	190778	182384
15°	197578	174320	166783
20°	173452	155186	152222
25°	140282	127495	132746
30°	97528	88811	106238
35°	60110	54402	80181
40°	34014	30493	53250
45°	16521	15754	36345
50°	6294	6294	30890
55°	3450	4072	28510
60°	2511	3234	23364
65°	2127	2763	19133
70°	1843	2372	15756
75°	1737	2436	13535
80°	1042	2084	9818
85°	1006	4151	9309



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	347.8	10.6
10°-20°	874.2	26.7
20°-30°	984.1	30.1
30°-40°	609.4	18.6
40°-50°	242.7	7.4
50°-60°	110.5	3.4
60°-70°	63.5	1.9
70°-80°	30.2	0.9
80°-90°	8.8	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°	2206.1	67.4
0°-40°	2815.4	86.1
0°-60°	3168.5	96.9
0°-90°	3271.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3271.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3799	3799	3799	3799	3799	
5°	3929	3857	3696	3616	3612	370
15°	3481	3330	3072	2947	2939	963
25°	2319	2257	2108	2160	2195	1043
35°	898	893	813	1133	1198	577
45°	213	213	203	442	469	181
55°	36	34	43	262	298	36
65°	16	15	21	146	148	16
75°	8	8	12	62	64	8
85°	2	2	7	15	15	1
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°	3799.2	3799.2	3799.2	3799.2	3799.2	3799.2	3799.2	3799.2	3799.2
2.5°	3886.1	3850.0	3841.8	3810.7	3758.2	3728.7	3710.7	3697.6	3720.6
5°	3928.7	3889.4	3856.6	3792.7	3696.0	3641.9	3615.7	3594.3	3612.4
7.5°	3897.6	3841.8	3797.6	3709.1	3586.2	3502.6	3466.5	3441.9	3458.3
10°	3784.5	3717.3	3666.5	3561.6	3427.2	3327.2	3282.9	3260.0	3276.4
12.5°	3637.0	3581.2	3504.2	3389.5	3245.2	3140.3	3107.6	3089.5	3096.1
15°	3481.3	3415.7	3330.5	3215.7	3071.5	2966.6	2946.9	2935.5	2938.7
17.5°	3255.1	3191.2	3117.4	3005.9	2873.2	2788.0	2788.0	2779.8	2784.7
20°	2973.2	2938.7	2866.6	2773.2	2660.1	2583.1	2607.7	2599.5	2609.3
22.5°	2668.3	2642.1	2579.8	2502.8	2407.7	2347.1	2401.1	2399.5	2412.6
25°	2319.2	2299.5	2256.9	2191.4	2107.8	2070.1	2160.2	2160.2	2194.6
27.5°	1934.0	1914.4	1884.9	1829.1	1760.3	1748.8	1881.6	1898.0	1935.7
30°	1540.7	1527.6	1511.2	1460.4	1403.0	1424.3	1607.9	1635.7	1678.3
32.5°	1189.9	1181.7	1176.8	1130.9	1080.1	1150.6	1360.4	1396.4	1439.1
35°	898.2	880.1	893.3	858.8	812.9	901.5	1132.6	1163.7	1198.1
37.5°	662.2	649.0	660.5	635.9	595.0	691.7	909.7	929.3	952.3
40°	475.3	463.8	473.7	458.9	426.1	516.3	713.0	734.3	744.1
42.5°	337.6	318.0	327.8	316.3	299.9	388.4	560.5	580.2	583.5
45°	213.1	206.5	213.1	206.5	203.2	288.5	442.5	460.6	468.8
47.5°	129.5	121.3	121.3	118.0	121.3	213.1	365.5	391.7	404.8
50°	73.8	70.5	68.8	67.2	73.8	167.2	316.3	345.8	362.2
52.5°	49.2	47.5	47.5	45.9	54.1	141.0	285.2	311.4	327.8
55°	36.1	34.4	34.4	34.4	42.6	121.3	262.2	283.5	298.3
57.5°	27.9	27.9	27.9	26.2	36.1	103.3	234.4	245.9	257.3
60°	22.9	21.3	21.3	21.3	29.5	88.5	201.6	206.5	213.1
62.5°	18.0	18.0	18.0	18.0	24.6	78.7	173.7	173.7	177.0
65°	16.4	14.8	14.8	14.8	21.3	68.8	145.9	144.2	147.5
67.5°	13.1	13.1	13.1	13.1	18.0	59.0	119.6	118.0	121.3
70°	11.5	11.5	11.5	11.5	14.8	49.2	96.7	95.1	98.3
72.5°	9.8	9.8	9.8	9.8	13.1	41.0	77.0	77.0	78.7
75°	8.2	8.2	8.2	8.2	11.5	31.1	62.3	62.3	63.9
77.5°	6.6	6.6	6.6	6.6	8.2	24.6	47.5	45.9	45.9
80°	3.3	4.9	4.9	4.9	6.6	18.0	34.4	31.1	31.1
82.5°	1.6	3.3	3.3	3.3	6.6	13.1	22.9	21.3	21.3
85°	1.6	1.6	1.6	4.9	6.6	9.8	14.8	14.8	14.8
87.5°	0.0	1.6	3.3	6.6	8.2	8.2	9.8	8.2	8.2
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)