

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: P799746

Luminaire Tested: **LD6C45D010 EU6459035 6LBMDSWWH**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P799746
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: LD6C45D010 EU6459035 6LBMDSWWH
Description: 6 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 6LBMDSW TRIM WITH WH FINISH
Light Source: -
Ballast/Driver: -

Summary

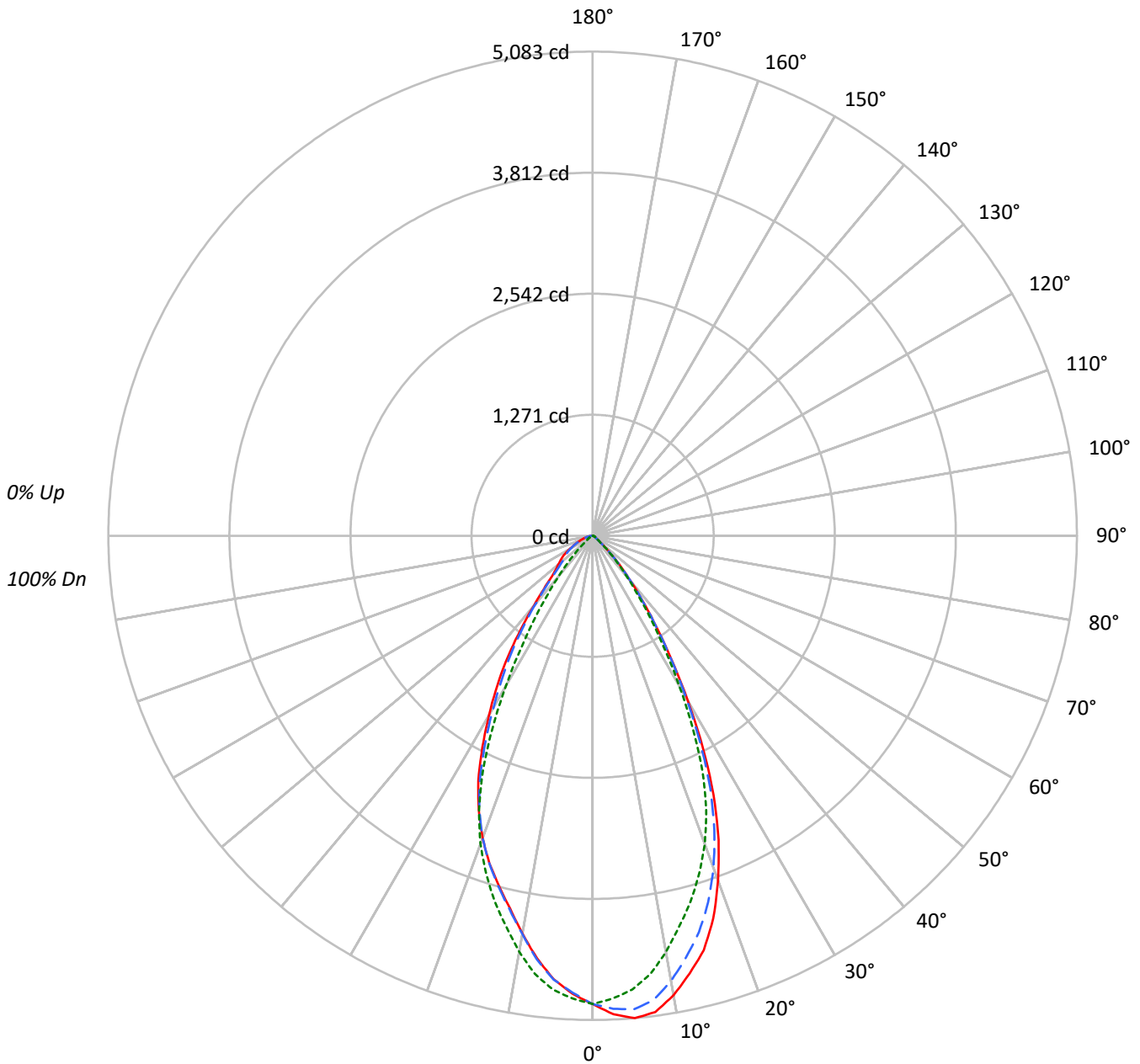
Lumens per Lamp: N/A
Luminaire Lumens: 4232.0 lumens
Efficiency: N/A
Efficacy: 85.3 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	269463	269463	269463
5°	279710	263140	257192
10°	272557	246828	235968
15°	255620	225535	215784
20°	224410	200777	196945
25°	181498	164949	171748
30°	126178	114904	137452
35°	77771	70390	103737
40°	44011	39452	68893
45°	21374	20382	47020
50°	8136	8136	39965
55°	4463	5266	36883
60°	3256	4188	30228
65°	2750	3580	24750
70°	2372	3061	20388
75°	2245	3135	17517
80°	1326	2683	12723
85°	1321	5346	12014



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	450.0	10.6
10°-20°	1131.0	26.7
20°-30°	1273.2	30.1
30°-40°	788.4	18.6
40°-50°	314.0	7.4
50°-60°	142.9	3.4
60°-70°	82.2	1.9
70°-80°	39.0	0.9
80°-90°	11.4	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°	2854.2	67.4
0°-40°	3642.5	86.1
0°-60°	4099.4	96.9
0°-90°	4232.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4232.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4915	4915	4915	4915	4915	
5°	5083	4990	4782	4678	4674	479
15°	4504	4309	3974	3813	3802	1246
25°	3001	2920	2727	2795	2839	1349
35°	1162	1156	1052	1465	1550	747
45°	276	276	263	572	606	234
55°	47	44	55	339	386	46
65°	21	19	28	189	191	21
75°	11	11	15	81	83	11
85°	2	2	8	19	19	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°	4915.4	4915.4	4915.4	4915.4	4915.4	4915.4	4915.4	4915.4	4915.4
2.5°	5027.8	4981.2	4970.5	4930.3	4862.4	4824.2	4800.9	4783.9	4813.6
5°	5082.9	5032.0	4989.6	4906.9	4781.8	4711.8	4677.9	4650.3	4673.7
7.5°	5042.6	4970.5	4913.3	4798.8	4639.7	4531.6	4484.9	4453.1	4474.3
10°	4896.3	4809.4	4743.7	4607.9	4434.1	4304.7	4247.4	4217.8	4239.0
12.5°	4705.5	4633.4	4533.7	4385.3	4198.7	4063.0	4020.5	3997.2	4005.7
15°	4504.0	4419.2	4308.9	4160.5	3973.9	3838.2	3812.7	3797.9	3802.1
17.5°	4211.4	4128.7	4033.3	3889.1	3717.3	3607.0	3607.0	3596.4	3602.8
20°	3846.7	3802.1	3708.8	3588.0	3441.6	3342.0	3373.8	3363.2	3375.9
22.5°	3452.2	3418.3	3337.7	3238.1	3115.1	3036.6	3106.6	3104.5	3121.4
25°	3000.6	2975.1	2920.0	2835.2	2727.0	2678.2	2794.9	2794.9	2839.4
27.5°	2502.2	2476.8	2438.6	2366.5	2277.5	2262.6	2434.4	2455.6	2504.4
30°	1993.3	1976.3	1955.1	1889.4	1815.2	1842.8	2080.3	2116.3	2171.4
32.5°	1539.5	1528.9	1522.5	1463.2	1397.4	1488.6	1760.0	1806.7	1861.8
35°	1162.1	1138.7	1155.7	1111.2	1051.8	1166.3	1465.3	1505.6	1550.1
37.5°	856.7	839.7	854.6	822.8	769.8	894.9	1176.9	1202.3	1232.0
40°	615.0	600.1	612.8	593.8	551.3	668.0	922.4	950.0	962.7
42.5°	436.8	411.4	424.1	409.3	388.1	502.6	725.2	750.7	754.9
45°	275.7	267.2	275.7	267.2	262.9	373.2	572.5	595.9	606.5
47.5°	167.5	156.9	156.9	152.7	156.9	275.7	472.9	506.8	523.8
50°	95.4	91.2	89.1	86.9	95.4	216.3	409.3	447.4	468.6
52.5°	63.6	61.5	61.5	59.4	70.0	182.4	369.0	402.9	424.1
55°	46.7	44.5	44.5	44.5	55.1	156.9	339.3	366.9	385.9
57.5°	36.0	36.0	36.0	33.9	46.7	133.6	303.2	318.1	332.9
60°	29.7	27.6	27.6	27.6	38.2	114.5	260.8	267.2	275.7
62.5°	23.3	23.3	23.3	23.3	31.8	101.8	224.8	224.8	229.0
65°	21.2	19.1	19.1	19.1	27.6	89.1	188.7	186.6	190.8
67.5°	17.0	17.0	17.0	17.0	23.3	76.3	154.8	152.7	156.9
70°	14.8	14.8	14.8	14.8	19.1	63.6	125.1	123.0	127.2
72.5°	12.7	12.7	12.7	12.7	17.0	53.0	99.7	99.7	101.8
75°	10.6	10.6	10.6	10.6	14.8	40.3	80.6	80.6	82.7
77.5°	8.5	8.5	8.5	8.5	10.6	31.8	61.5	59.4	59.4
80°	4.2	6.4	6.4	6.4	8.5	23.3	44.5	40.3	40.3
82.5°	2.1	4.2	4.2	4.2	8.5	17.0	29.7	27.6	27.6
85°	2.1	2.1	2.1	6.4	8.5	12.7	19.1	19.1	19.1
87.5°	0.0	2.1	4.2	8.5	10.6	10.6	12.7	10.6	10.6
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)