

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: P799723

Luminaire Tested: **LD6C45D010 EU6459027 6LBMDSWWMH**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P799723
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 EU6459027 6LBMDSWWMH
Description: 6 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 6LBMDSW TRIM WITH WMH FINISH
Light Source: -
Ballast/Driver: -

Summary

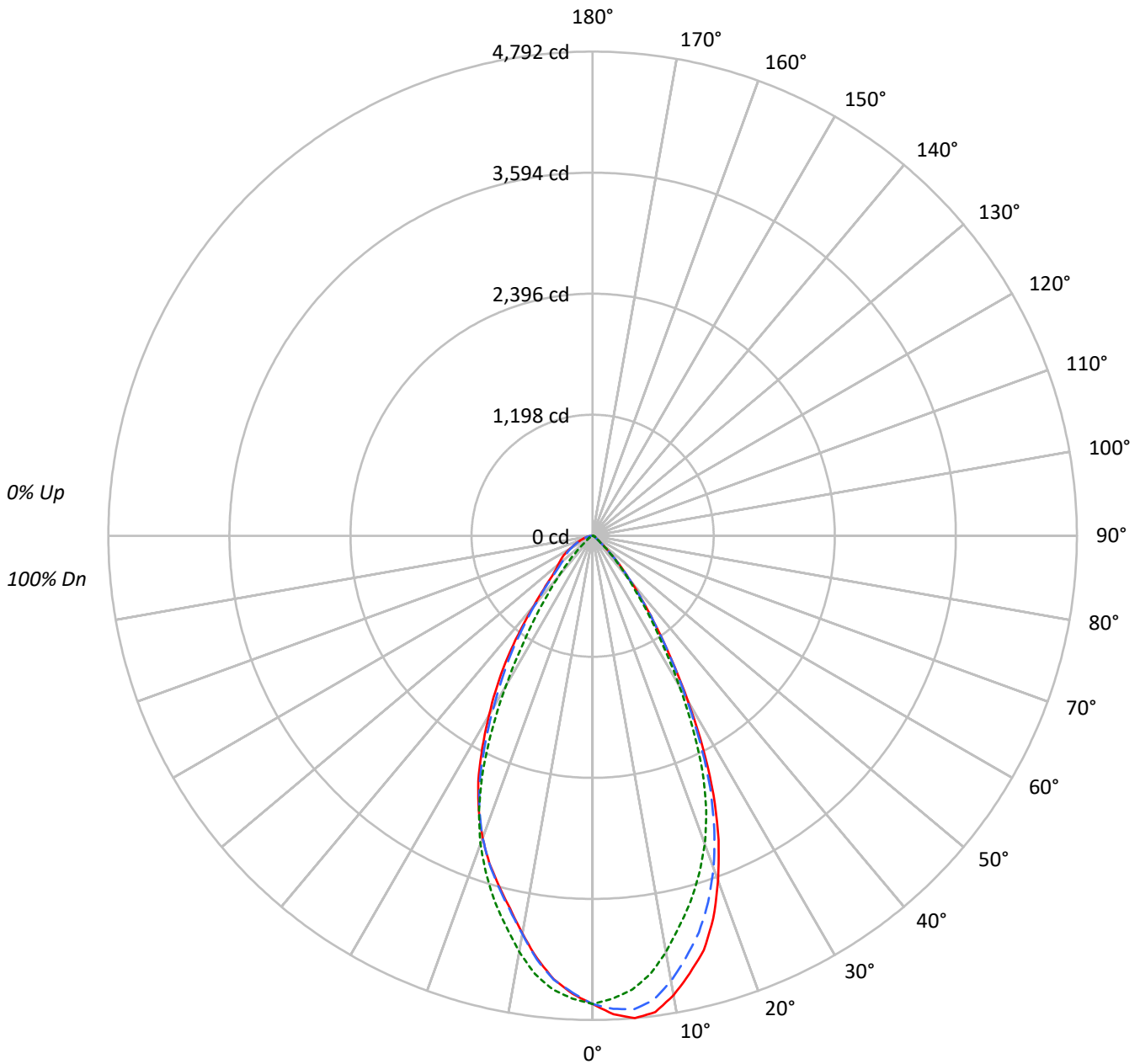
Lumens per Lamp: N/A
Luminaire Lumens: 3990.0 lumens
Efficiency: N/A
Efficacy: 80.4 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P799723

CATALOG NUMBER: LD6C45D010 EU6459027 6LBMDSWWMH

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°	254053	254053	254053
5°	263718	248095	242482
10°	256970	232711	222474
15°	241006	212640	203446
20°	211576	189296	185685
25°	171119	155519	161925
30°	118961	108333	129596
35°	73321	66361	97808
40°	41492	37198	64957
45°	20149	19219	44330
50°	7676	7676	37679
55°	4205	4970	34780
60°	3070	3947	28496
65°	2594	3373	23336
70°	2244	2885	19234
75°	2118	2965	16521
80°	1263	2526	11996
85°	1258	5032	11322



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	424.3	10.6
10°-20°	1066.3	26.7
20°-30°	1200.4	30.1
30°-40°	743.3	18.6
40°-50°	296.0	7.4
50°-60°	134.8	3.4
60°-70°	77.5	1.9
70°-80°	36.8	0.9
80°-90°	10.7	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°	2691.0	67.4
0°-40°	3434.3	86.1
0°-60°	3865.0	96.9
0°-90°	3990.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3990.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4634	4634	4634	4634	4634	
5°	4792	4704	4508	4410	4406	451
15°	4246	4062	3747	3595	3585	1175
25°	2829	2753	2571	2635	2677	1272
35°	1096	1090	992	1382	1462	704
45°	260	260	248	540	572	220
55°	44	42	52	320	364	44
65°	20	18	26	178	180	20
75°	10	10	14	76	78	10
85°	2	2	8	18	18	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°	4634.3	4634.3	4634.3	4634.3	4634.3	4634.3	4634.3	4634.3	4634.3
2.5°	4740.3	4696.3	4686.3	4648.3	4584.4	4548.4	4526.4	4510.4	4538.4
5°	4792.3	4744.3	4704.3	4626.3	4508.4	4442.4	4410.4	4384.4	4406.4
7.5°	4754.3	4686.3	4632.3	4524.4	4374.4	4272.5	4228.5	4198.5	4218.5
10°	4616.3	4534.4	4472.4	4344.4	4180.5	4058.5	4004.6	3976.6	3996.6
12.5°	4436.4	4368.4	4274.5	4134.5	3958.6	3830.6	3790.6	3768.6	3776.6
15°	4246.5	4166.5	4062.5	3922.6	3746.7	3618.7	3594.7	3580.7	3584.7
17.5°	3970.6	3892.6	3802.6	3666.7	3504.7	3400.8	3400.8	3390.8	3396.8
20°	3626.7	3584.7	3496.7	3382.8	3244.8	3150.9	3180.9	3170.9	3182.9
22.5°	3254.8	3222.8	3146.9	3052.9	2936.9	2863.0	2928.9	2926.9	2942.9
25°	2829.0	2805.0	2753.0	2673.0	2571.1	2525.1	2635.1	2635.1	2677.0
27.5°	2359.2	2335.2	2299.2	2231.2	2147.2	2133.2	2295.2	2315.2	2361.2
30°	1879.3	1863.3	1843.3	1781.4	1711.4	1737.4	1961.3	1995.3	2047.3
32.5°	1451.5	1441.5	1435.5	1379.5	1317.5	1403.5	1659.4	1703.4	1755.4
35°	1095.6	1073.6	1089.6	1047.6	991.6	1099.6	1381.5	1419.5	1461.5
37.5°	807.7	791.7	805.7	775.7	725.7	843.7	1109.6	1133.6	1161.6
40°	579.8	565.8	577.8	559.8	519.8	629.8	869.7	895.7	907.7
42.5°	411.9	387.9	399.9	385.9	365.9	473.8	683.8	707.7	711.7
45°	259.9	251.9	259.9	251.9	247.9	351.9	539.8	561.8	571.8
47.5°	157.9	147.9	147.9	143.9	147.9	259.9	445.8	477.8	493.8
50°	90.0	86.0	84.0	82.0	90.0	203.9	385.9	421.8	441.8
52.5°	60.0	58.0	58.0	56.0	66.0	171.9	347.9	379.9	399.9
55°	44.0	42.0	42.0	42.0	52.0	147.9	319.9	345.9	363.9
57.5°	34.0	34.0	34.0	32.0	44.0	126.0	285.9	299.9	313.9
60°	28.0	26.0	26.0	26.0	36.0	108.0	245.9	251.9	259.9
62.5°	22.0	22.0	22.0	22.0	30.0	96.0	211.9	211.9	215.9
65°	20.0	18.0	18.0	18.0	26.0	84.0	177.9	175.9	179.9
67.5°	16.0	16.0	16.0	16.0	22.0	72.0	145.9	143.9	147.9
70°	14.0	14.0	14.0	14.0	18.0	60.0	118.0	116.0	120.0
72.5°	12.0	12.0	12.0	12.0	16.0	50.0	94.0	94.0	96.0
75°	10.0	10.0	10.0	10.0	14.0	38.0	76.0	76.0	78.0
77.5°	8.0	8.0	8.0	8.0	10.0	30.0	58.0	56.0	56.0
80°	4.0	6.0	6.0	6.0	8.0	22.0	42.0	38.0	38.0
82.5°	2.0	4.0	4.0	4.0	8.0	16.0	28.0	26.0	26.0
85°	2.0	2.0	2.0	6.0	8.0	12.0	18.0	18.0	18.0
87.5°	0.0	2.0	4.0	8.0	10.0	10.0	12.0	10.0	10.0
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)