

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: P799722

Luminaire Tested: **LD6C45D010 EU6459027 6LBMDSWWH**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P799722
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 6LBMDSWWH
Description: 6 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 6LBMDSW TRIM WITH WH FINISH
Light Source: -
Ballast/Driver: -

Summary

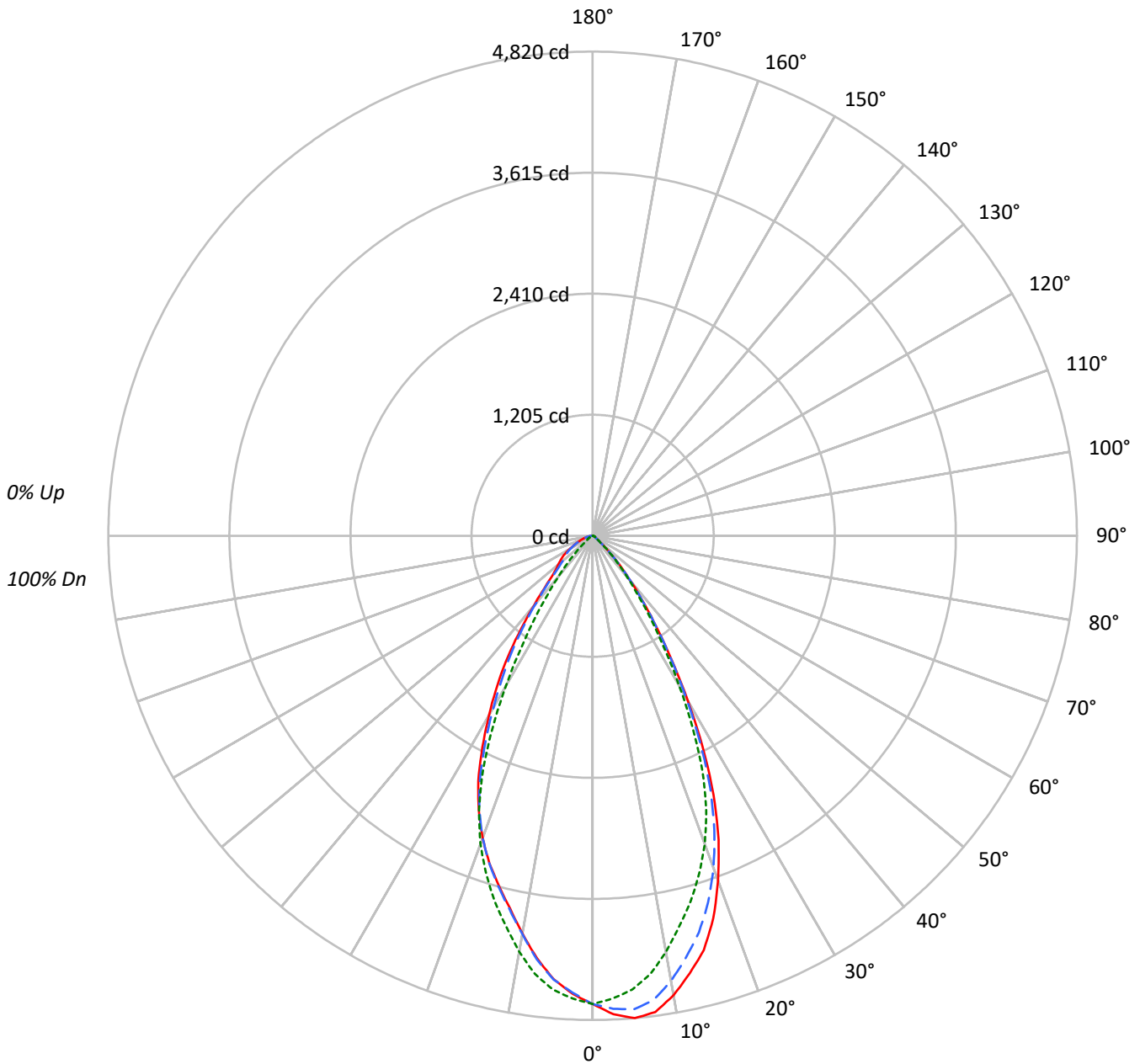
Lumens per Lamp: N/A
Luminaire Lumens: 4013.0 lumens
Efficiency: N/A
Efficacy: 80.9 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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					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°	255517	255517	255517
5°	265237	249526	243880
10°	258457	234053	223754
15°	242396	213866	204621
20°	212795	190387	186753
25°	172105	156414	162862
30°	119651	108953	130343
35°	73743	66749	98370
40°	41728	37413	65330
45°	20266	19328	44586
50°	7718	7718	37901
55°	4224	4999	34981
60°	3092	3969	28660
65°	2607	3386	23479
70°	2260	2901	19330
75°	2139	2987	16606
80°	1263	2526	12060
85°	1258	5032	11385



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	426.7	10.6
10°-20°	1072.5	26.7
20°-30°	1207.3	30.1
30°-40°	747.6	18.6
40°-50°	297.7	7.4
50°-60°	135.5	3.4
60°-70°	77.9	1.9
70°-80°	37.0	0.9
80°-90°	10.8	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°	2706.5	67.4
0°-40°	3454.1	86.1
0°-60°	3887.3	96.9
0°-90°	4013.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4013.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4661	4661	4661	4661	4661	
5°	4820	4731	4534	4436	4432	454
15°	4271	4086	3768	3615	3605	1182
25°	2845	2769	2586	2650	2692	1279
35°	1102	1096	997	1390	1470	708
45°	261	261	249	543	575	221
55°	44	42	52	322	366	44
65°	20	18	26	179	181	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°	4661.0	4661.0	4661.0	4661.0	4661.0	4661.0	4661.0	4661.0	4661.0
2.5°	4767.6	4723.4	4713.3	4675.1	4610.8	4574.6	4552.5	4536.4	4564.5
5°	4819.9	4771.6	4731.4	4653.0	4534.4	4468.0	4435.8	4409.7	4431.8
7.5°	4781.7	4713.3	4659.0	4550.5	4399.6	4297.1	4252.9	4222.7	4242.8
10°	4643.0	4560.5	4498.2	4369.5	4204.6	4081.9	4027.6	3999.5	4019.6
12.5°	4462.0	4393.6	4299.1	4158.3	3981.4	3852.7	3812.5	3790.4	3798.4
15°	4271.0	4190.5	4086.0	3945.2	3768.3	3639.6	3615.4	3601.4	3605.4
17.5°	3993.5	3915.0	3824.6	3687.8	3524.9	3420.4	3420.4	3410.3	3416.4
20°	3647.6	3605.4	3516.9	3402.3	3263.5	3169.0	3199.2	3189.1	3201.2
22.5°	3273.6	3241.4	3165.0	3070.5	2953.9	2879.5	2945.8	2943.8	2959.9
25°	2845.3	2821.2	2768.9	2688.4	2585.9	2539.6	2650.2	2650.2	2692.5
27.5°	2372.8	2348.6	2312.4	2244.1	2159.6	2145.5	2308.4	2328.5	2374.8
30°	1890.2	1874.1	1854.0	1791.6	1721.2	1747.4	1972.6	2006.8	2059.1
32.5°	1459.8	1449.8	1443.8	1387.5	1325.1	1411.6	1669.0	1713.2	1765.5
35°	1101.9	1079.8	1095.9	1053.7	997.4	1105.9	1389.5	1427.7	1469.9
37.5°	812.4	796.3	810.4	780.2	729.9	848.6	1116.0	1140.1	1168.3
40°	583.1	569.1	581.1	563.0	522.8	633.4	874.7	900.8	912.9
42.5°	414.2	390.1	402.2	388.1	368.0	476.6	687.7	711.8	715.8
45°	261.4	253.4	261.4	253.4	249.3	353.9	542.9	565.0	575.1
47.5°	158.9	148.8	148.8	144.8	148.8	261.4	448.4	480.6	496.7
50°	90.5	86.5	84.5	82.4	90.5	205.1	388.1	424.3	444.4
52.5°	60.3	58.3	58.3	56.3	66.4	172.9	349.9	382.1	402.2
55°	44.2	42.2	42.2	42.2	52.3	148.8	321.7	347.9	366.0
57.5°	34.2	34.2	34.2	32.2	44.2	126.7	287.5	301.6	315.7
60°	28.2	26.1	26.1	26.1	36.2	108.6	247.3	253.4	261.4
62.5°	22.1	22.1	22.1	22.1	30.2	96.5	213.1	213.1	217.2
65°	20.1	18.1	18.1	18.1	26.1	84.5	179.0	177.0	181.0
67.5°	16.1	16.1	16.1	16.1	22.1	72.4	146.8	144.8	148.8
70°	14.1	14.1	14.1	14.1	18.1	60.3	118.6	116.6	120.6
72.5°	12.1	12.1	12.1	12.1	16.1	50.3	94.5	94.5	96.5
75°	10.1	10.1	10.1	10.1	14.1	38.2	76.4	76.4	78.4
77.5°	8.0	8.0	8.0	8.0	10.1	30.2	58.3	56.3	56.3
80°	4.0	6.0	6.0	6.0	8.0	22.1	42.2	38.2	38.2
82.5°	2.0	4.0	4.0	4.0	8.0	16.1	28.2	26.1	26.1
85°	2.0	2.0	2.0	6.0	8.0	12.1	18.1	18.1	18.1
87.5°	0.0	2.0	4.0	8.0	10.1	10.1	12.1	10.1	10.1
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)