

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: P799743

Luminaire Tested: **LD6C45D010 EU6459035 6LBMDSWH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P799743
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 6LBMDSWH
Description: 6 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 6LBMDSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

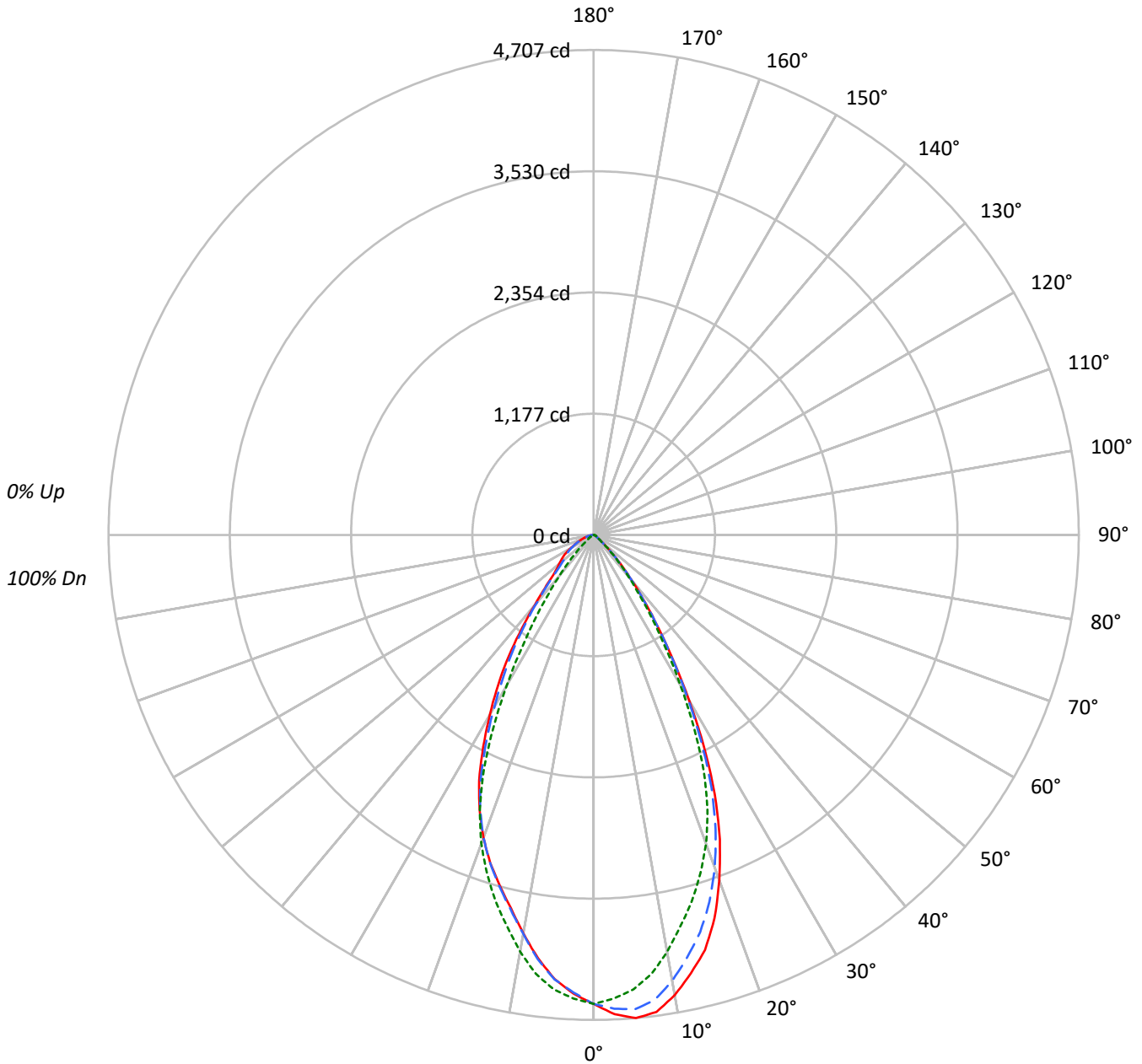
Lumens per Lamp: N/A
Luminaire Lumens: 3919.0 lumens
Efficiency: N/A
Efficacy: 79.0 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	249536	249536	249536
5°	259024	243682	238168
10°	252400	228570	218511
15°	236715	208855	199825
20°	207813	185930	182378
25°	168070	152749	159045
30°	116847	106402	127285
35°	72016	65183	96068
40°	40755	36540	63798
45°	19793	18878	43539
50°	7539	7539	37014
55°	4129	4884	34159
60°	3015	3870	27991
65°	2542	3308	22921
70°	2196	2837	18881
75°	2076	2902	16225
80°	1231	2494	11775
85°	1258	4969	11133



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	416.7	10.6
10°-20°	1047.3	26.7
20°-30°	1179.0	30.1
30°-40°	730.1	18.6
40°-50°	290.7	7.4
50°-60°	132.4	3.4
60°-70°	76.1	1.9
70°-80°	36.1	0.9
80°-90°	10.5	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°	2643.1	67.4
0°-40°	3373.1	86.1
0°-60°	3796.2	96.9
0°-90°	3919.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3919.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4552	4552	4552	4552	4552	
5°	4707	4621	4428	4332	4328	443
15°	4171	3990	3680	3531	3521	1154
25°	2779	2704	2525	2588	2629	1249
35°	1076	1070	974	1357	1436	692
45°	255	255	244	530	562	216
55°	43	41	51	314	357	43
65°	20	18	26	175	177	19
75°	10	10	14	75	77	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°	4551.9	4551.9	4551.9	4551.9	4551.9	4551.9	4551.9	4551.9	4551.9
2.5°	4655.9	4612.7	4602.9	4565.6	4502.8	4467.4	4445.8	4430.1	4457.6
5°	4707.0	4659.9	4620.6	4544.0	4428.2	4363.4	4331.9	4306.4	4328.0
7.5°	4669.7	4602.9	4549.9	4443.9	4296.6	4196.4	4153.2	4123.8	4143.4
10°	4534.2	4453.7	4392.8	4267.1	4106.1	3986.3	3933.3	3905.8	3925.4
12.5°	4357.5	4290.7	4198.4	4060.9	3888.1	3762.5	3723.2	3701.6	3709.4
15°	4170.9	4092.4	3990.2	3852.8	3680.0	3554.3	3530.7	3517.0	3520.9
17.5°	3899.9	3823.3	3735.0	3601.4	3442.4	3340.3	3340.3	3330.4	3336.3
20°	3562.2	3520.9	3434.5	3322.6	3187.1	3094.8	3124.3	3114.4	3126.2
22.5°	3196.9	3165.5	3090.9	2998.6	2884.7	2812.0	2876.8	2874.9	2890.6
25°	2778.6	2755.1	2704.0	2625.5	2525.3	2480.2	2588.2	2588.2	2629.4
27.5°	2317.2	2293.6	2258.3	2191.5	2109.0	2095.3	2254.3	2274.0	2319.1
30°	1845.9	1830.2	1810.5	1749.7	1680.9	1706.5	1926.4	1959.8	2010.8
32.5°	1425.6	1415.8	1409.9	1355.0	1294.1	1378.5	1629.9	1673.1	1724.1
35°	1076.1	1054.5	1070.2	1029.0	974.0	1080.0	1356.9	1394.2	1435.5
37.5°	793.3	777.6	791.4	761.9	712.8	828.7	1089.9	1113.4	1140.9
40°	569.5	555.7	567.5	549.8	510.6	618.6	854.2	879.7	891.5
42.5°	404.5	381.0	392.7	379.0	359.4	465.4	671.6	695.2	699.1
45°	255.3	247.4	255.3	247.4	243.5	345.6	530.2	551.8	561.6
47.5°	155.1	145.3	145.3	141.4	145.3	255.3	437.9	469.3	485.0
50°	88.4	84.4	82.5	80.5	88.4	200.3	379.0	414.3	434.0
52.5°	58.9	56.9	56.9	55.0	64.8	168.9	341.7	373.1	392.7
55°	43.2	41.2	41.2	41.2	51.1	145.3	314.2	339.7	357.4
57.5°	33.4	33.4	33.4	31.4	43.2	123.7	280.8	294.6	308.3
60°	27.5	25.5	25.5	25.5	35.3	106.0	241.5	247.4	255.3
62.5°	21.6	21.6	21.6	21.6	29.5	94.3	208.2	208.2	212.1
65°	19.6	17.7	17.7	17.7	25.5	82.5	174.8	172.8	176.7
67.5°	15.7	15.7	15.7	15.7	21.6	70.7	143.4	141.4	145.3
70°	13.7	13.7	13.7	13.7	17.7	58.9	115.9	113.9	117.8
72.5°	11.8	11.8	11.8	11.8	15.7	49.1	92.3	92.3	94.3
75°	9.8	9.8	9.8	9.8	13.7	37.3	74.6	74.6	76.6
77.5°	7.9	7.9	7.9	7.9	9.8	29.5	56.9	55.0	55.0
80°	3.9	5.9	5.9	5.9	7.9	21.6	41.2	37.3	37.3
82.5°	2.0	3.9	3.9	3.9	7.9	15.7	27.5	25.5	25.5
85°	2.0	2.0	2.0	5.9	7.9	11.8	17.7	17.7	17.7
87.5°	0.0	2.0	3.9	7.9	9.8	9.8	11.8	9.8	9.8
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)