

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: P799738

Luminaire Tested: **LD6C45D010 EU6459035 6LBMDDWLI**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P799738
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2309-186-6)
Test Lab: INNOVATION CENTER
Issue Date: 4/12/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD6C45D010 EU6459035 6LBMDDWLI
Description: 6 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 6LBMDDW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

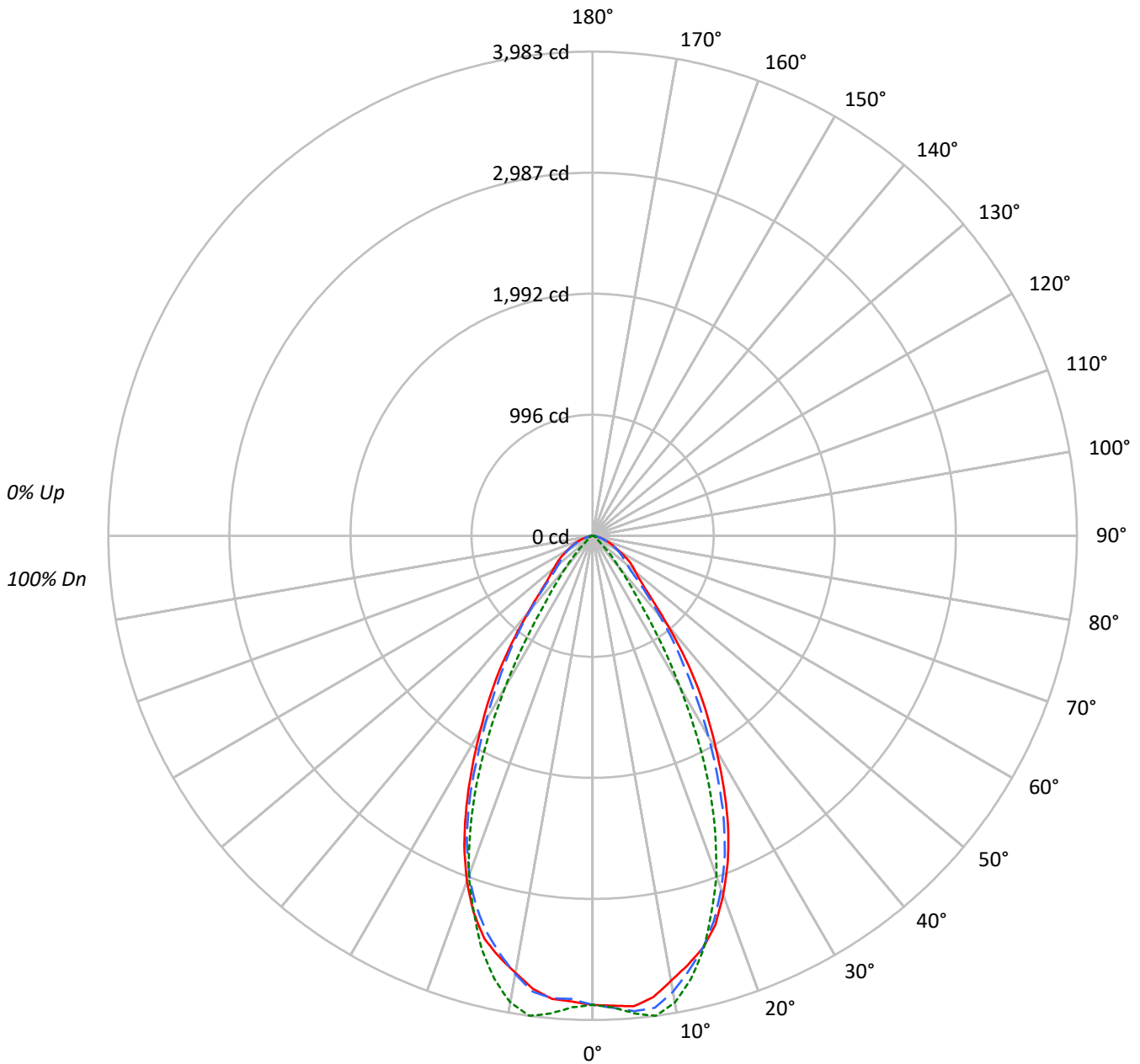
Lumens per Lamp: N/A
Luminaire Lumens: 3929.0 lumens
Efficiency: N/A
Efficacy: 79.2 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.87 / 0.88
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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	0					
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100				
1	112	109	106	104	110	107	105	102	103	101	99	99	98	96	96	94	93	91				91				
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	83				83				
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76				76				
4	94	85	79	74	92	84	78	74	82	77	73	80	76	72	78	74	71	70				70				
5	89	79	73	68	87	78	72	68	76	71	67	75	70	66	73	69	66	64				64				
6	84	74	67	62	82	73	67	62	71	66	62	70	65	61	69	64	61	59				59				
7	79	69	62	58	78	68	62	58	67	61	57	66	61	57	65	60	57	55				55				
8	75	65	58	54	74	64	58	54	63	57	53	62	57	53	61	56	53	51				51				
9	71	61	55	50	70	60	54	50	59	54	50	58	53	50	58	53	50	48				48				
10	68	57	51	47	67	57	51	47	56	51	47	55	50	47	55	50	47	45				45				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	211567	211567	211567
5°	213779	217020	210433
10°	206854	217019	203247
15°	199087	199871	194854
20°	183229	173615	176363
25°	159463	136907	148539
30°	128608	90957	116683
35°	99709	46900	87622
40°	68414	24303	59003
45°	46873	12172	41392
50°	39009	5194	35496
55°	35086	4502	31712
60°	27761	4309	26478
65°	22921	3814	22661
70°	18561	3462	18561
75°	13725	3749	14551
80°	8050	3094	8682
85°	6164	3711	6164



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	367.4	9.4
10°-20°	964.2	24.5
20°-30°	1100.6	28.0
30°-40°	729.9	18.6
40°-50°	352.0	9.0
50°-60°	216.6	5.5
60°-70°	131.0	3.3
70°-80°	55.1	1.4
80°-90°	12.2	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°	2432.2	61.9
0°-40°	3162.1	80.5
0°-60°	3730.7	95.0
0°-90°	3929.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3929.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3859	3859	3859	3859	3859	
5°	3885	3926	3944	3818	3824	365
15°	3508	3508	3522	3372	3433	978
25°	2636	2548	2263	2395	2456	1195
35°	1490	1313	701	1225	1309	922
45°	605	530	157	495	534	493
55°	367	298	47	298	332	323
65°	177	169	29	159	175	177
75°	65	65	18	61	69	69
85°	10	14	6	10	10	13
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°	3859.3	3859.3	3859.3	3859.3	3859.3	3859.3	3859.3	3859.3	3859.3
2.5°	3869.1	3875.0	3886.8	3888.8	3882.9	3845.6	3814.2	3825.9	3835.8
5°	3884.8	3896.6	3926.1	3953.5	3943.7	3880.9	3818.1	3816.1	3824.0
7.5°	3827.9	3855.4	3916.2	3984.9	3983.0	3875.0	3782.8	3759.2	3759.2
10°	3716.0	3741.5	3808.3	3900.5	3898.6	3763.1	3661.0	3649.3	3651.2
12.5°	3615.9	3627.7	3661.0	3733.7	3733.7	3600.2	3521.7	3533.5	3549.2
15°	3507.9	3515.8	3507.9	3531.5	3521.7	3411.7	3372.5	3409.8	3433.3
17.5°	3354.8	3358.7	3317.5	3286.1	3248.8	3180.1	3189.9	3244.9	3250.8
20°	3140.8	3166.4	3091.8	3011.3	2976.0	2911.2	2966.1	3027.0	3023.1
22.5°	2905.3	2934.7	2838.5	2705.1	2632.4	2606.9	2705.1	2760.0	2758.1
25°	2636.3	2657.9	2548.0	2361.5	2263.4	2259.4	2394.9	2451.8	2455.7
27.5°	2334.0	2341.9	2218.2	1974.8	1853.1	1882.5	2053.3	2131.8	2141.7
30°	2031.7	2027.8	1900.2	1597.9	1436.9	1517.4	1747.1	1833.5	1843.3
32.5°	1754.9	1743.2	1597.9	1236.7	1044.3	1164.1	1466.4	1556.7	1572.4
35°	1489.9	1470.3	1313.3	914.8	700.8	879.4	1224.9	1303.5	1309.3
37.5°	1213.2	1203.3	1079.7	685.1	488.8	667.4	999.2	1056.1	1050.2
40°	956.0	956.0	853.9	508.4	339.6	496.6	791.1	842.1	824.5
42.5°	749.9	759.7	673.3	374.9	241.5	369.0	626.2	673.3	653.7
45°	604.6	604.6	530.0	278.8	157.0	274.8	494.7	537.9	533.9
47.5°	512.4	504.5	429.9	204.2	86.4	206.1	416.2	469.2	467.2
50°	457.4	445.6	369.0	161.0	60.9	170.8	365.1	414.2	416.2
52.5°	414.2	396.5	331.8	143.3	53.0	149.2	331.8	371.0	371.0
55°	367.1	357.3	298.4	127.6	47.1	133.5	298.4	333.7	331.8
57.5°	310.2	308.2	267.0	115.8	43.2	117.8	267.0	288.6	280.7
60°	253.2	261.1	231.6	104.0	39.3	106.0	227.7	245.4	241.5
62.5°	212.0	221.8	202.2	92.3	33.4	94.2	192.4	210.0	206.1
65°	176.7	184.5	168.8	78.5	29.4	78.5	159.0	174.7	174.7
67.5°	145.3	151.2	139.4	64.8	25.5	64.8	129.6	143.3	145.3
70°	115.8	119.7	109.9	51.0	21.6	53.0	102.1	115.8	115.8
72.5°	90.3	92.3	86.4	41.2	19.6	41.2	78.5	90.3	90.3
75°	64.8	68.7	64.8	31.4	17.7	31.4	60.9	66.7	68.7
77.5°	37.3	47.1	47.1	25.5	13.7	23.6	43.2	45.1	45.1
80°	25.5	29.4	33.4	17.7	9.8	17.7	27.5	29.4	27.5
82.5°	17.7	19.6	19.6	11.8	7.9	11.8	17.7	19.6	17.7
85°	9.8	13.7	13.7	9.8	5.9	7.9	9.8	11.8	9.8
87.5°	5.9	7.9	9.8	7.9	5.9	5.9	5.9	5.9	3.9
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)