

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: P799729

Luminaire Tested: **LD6C45D010 EU6459030 6LBMDDWWMH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P799729
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 EU6459030 6LBMDDWWMH
Description: 6 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 6LBMDDW TRIM WITH WMH FINISH
Light Source: -
Ballast/Driver: -

Summary

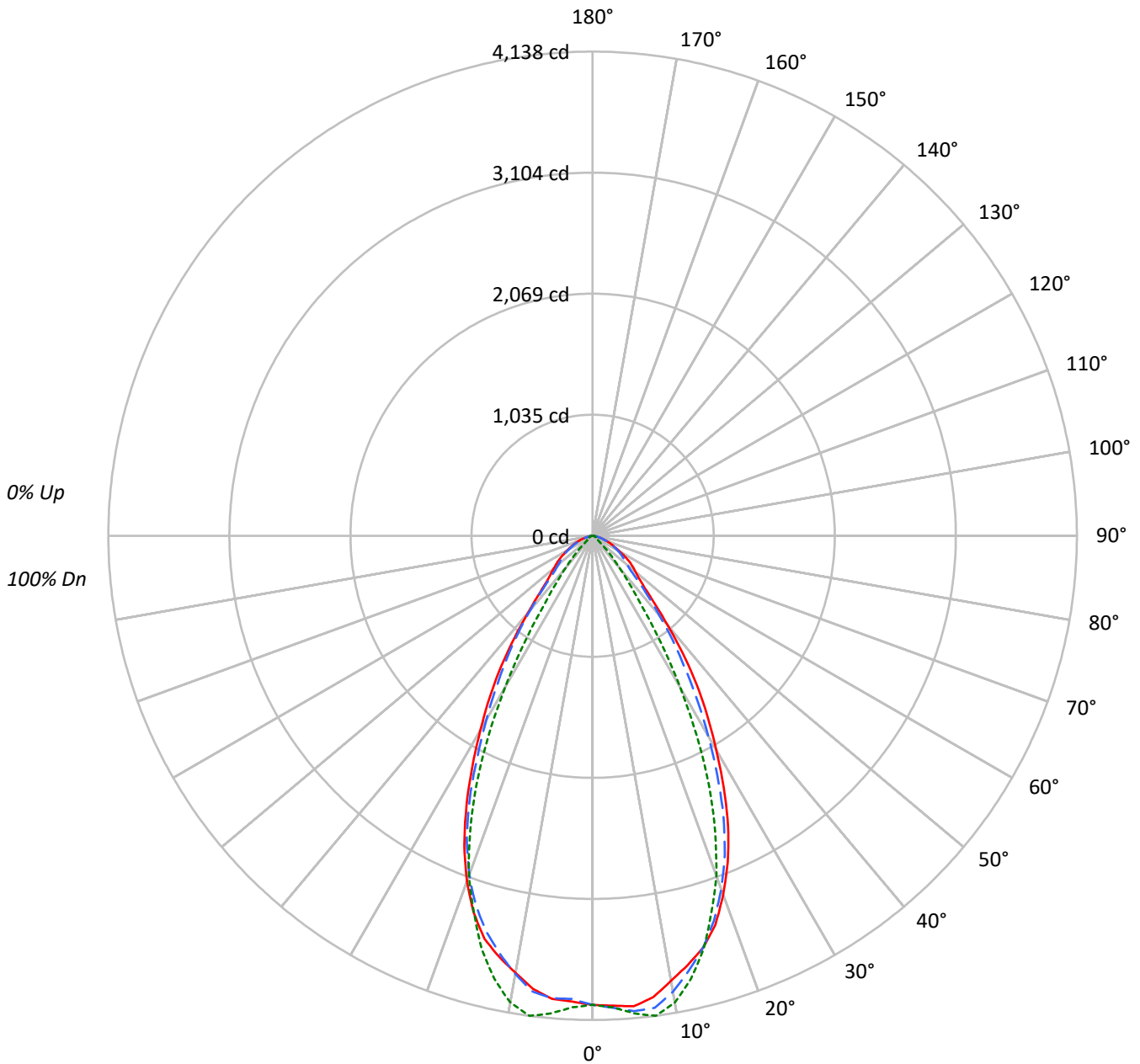
Lumens per Lamp: N/A
Luminaire Lumens: 4082.0 lumens
Efficiency: N/A
Efficacy: 82.3 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.87 / 0.88
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	219807	219807	219807
5°	222105	225473	218627
10°	214909	225469	211163
15°	206840	207652	202442
20°	190370	180371	183229
25°	165675	142236	154327
30°	133622	94502	121228
35°	103597	48727	91035
40°	71076	25247	61301
45°	48703	12652	43004
50°	40527	5390	36877
55°	36453	4674	32945
60°	28846	4473	27509
65°	23816	3969	23543
70°	19282	3590	19282
75°	14255	3897	15123
80°	8366	3220	9029
85°	6416	3837	6416



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	381.7	9.4
10°-20°	1001.8	24.5
20°-30°	1143.5	28.0
30°-40°	758.3	18.6
40°-50°	365.7	9.0
50°-60°	225.0	5.5
60°-70°	136.1	3.3
70°-80°	57.3	1.4
80°-90°	12.7	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°	2526.9	61.9
0°-40°	3285.2	80.5
0°-60°	3875.9	95.0
0°-90°	4082.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4082.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4010	4010	4010	4010	4010	
5°	4036	4079	4097	3967	3973	379
15°	3644	3644	3659	3504	3567	1016
25°	2739	2647	2352	2488	2551	1242
35°	1548	1364	728	1273	1360	957
45°	628	551	163	514	555	512
55°	381	310	49	310	345	335
65°	184	175	31	165	182	184
75°	67	67	18	63	71	72
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°	4009.6	4009.6	4009.6	4009.6	4009.6	4009.6	4009.6	4009.6	4009.6
2.5°	4019.8	4025.9	4038.2	4040.2	4034.1	3995.3	3962.7	3974.9	3985.1
5°	4036.1	4048.4	4078.9	4107.5	4097.3	4032.0	3966.8	3964.7	3972.9
7.5°	3977.0	4005.5	4068.7	4140.1	4138.1	4025.9	3930.1	3905.6	3905.6
10°	3860.7	3887.2	3956.6	4052.4	4050.4	3909.7	3803.6	3791.4	3793.4
12.5°	3756.7	3768.9	3803.6	3879.1	3879.1	3740.4	3658.8	3671.0	3687.4
15°	3644.5	3652.7	3644.5	3669.0	3658.8	3544.6	3503.8	3542.6	3567.0
17.5°	3485.5	3489.5	3446.7	3414.1	3375.3	3303.9	3314.1	3371.2	3377.4
20°	3263.2	3289.7	3212.2	3128.5	3091.8	3024.5	3081.6	3144.9	3140.8
22.5°	3018.4	3049.0	2949.1	2810.4	2734.9	2708.4	2810.4	2867.5	2865.5
25°	2739.0	2761.4	2647.2	2453.5	2351.5	2347.4	2488.2	2547.3	2551.4
27.5°	2424.9	2433.1	2304.6	2051.7	1925.3	1955.9	2133.3	2214.9	2225.1
30°	2110.9	2106.8	1974.2	1660.1	1492.9	1576.5	1815.1	1904.9	1915.1
32.5°	1823.3	1811.1	1660.1	1284.9	1085.0	1209.4	1523.5	1617.3	1633.6
35°	1548.0	1527.6	1364.4	950.4	728.1	913.7	1272.6	1354.2	1360.3
37.5°	1260.4	1250.2	1121.7	711.8	507.8	693.4	1038.1	1097.2	1091.1
40°	993.2	993.2	887.2	528.2	352.8	516.0	821.9	874.9	856.6
42.5°	779.1	789.3	699.5	389.5	250.9	383.4	650.6	699.5	679.1
45°	628.2	628.2	550.7	289.6	163.2	285.5	513.9	558.8	554.7
47.5°	532.3	524.1	446.6	212.1	89.7	214.1	432.4	487.4	485.4
50°	475.2	463.0	383.4	167.2	63.2	177.4	379.3	430.3	432.4
52.5°	430.3	412.0	344.7	148.9	55.1	155.0	344.7	385.5	385.5
55°	381.4	371.2	310.0	132.6	48.9	138.7	310.0	346.7	344.7
57.5°	322.2	320.2	277.4	120.3	44.9	122.4	277.4	299.8	291.6
60°	263.1	271.2	240.7	108.1	40.8	110.1	236.6	254.9	250.9
62.5°	220.3	230.5	210.1	95.9	34.7	97.9	199.9	218.2	214.1
65°	183.6	191.7	175.4	81.6	30.6	81.6	165.2	181.5	181.5
67.5°	150.9	157.0	144.8	67.3	26.5	67.3	134.6	148.9	150.9
70°	120.3	124.4	114.2	53.0	22.4	55.1	106.1	120.3	120.3
72.5°	93.8	95.9	89.7	42.8	20.4	42.8	81.6	93.8	93.8
75°	67.3	71.4	67.3	32.6	18.4	32.6	63.2	69.3	71.4
77.5°	38.7	48.9	48.9	26.5	14.3	24.5	44.9	46.9	46.9
80°	26.5	30.6	34.7	18.4	10.2	18.4	28.6	30.6	28.6
82.5°	18.4	20.4	20.4	12.2	8.2	12.2	18.4	20.4	18.4
85°	10.2	14.3	14.3	10.2	6.1	8.2	10.2	12.2	10.2
87.5°	6.1	8.2	10.2	8.2	6.1	6.1	6.1	6.1	4.1
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)