

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: P799715

Luminaire Tested: **LD6C45D010 EU6459027 6LBMDDWMW**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P799715
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 EU6459027 6LBMDDWMW
Description: 6 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 6LBMDDW TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Summary

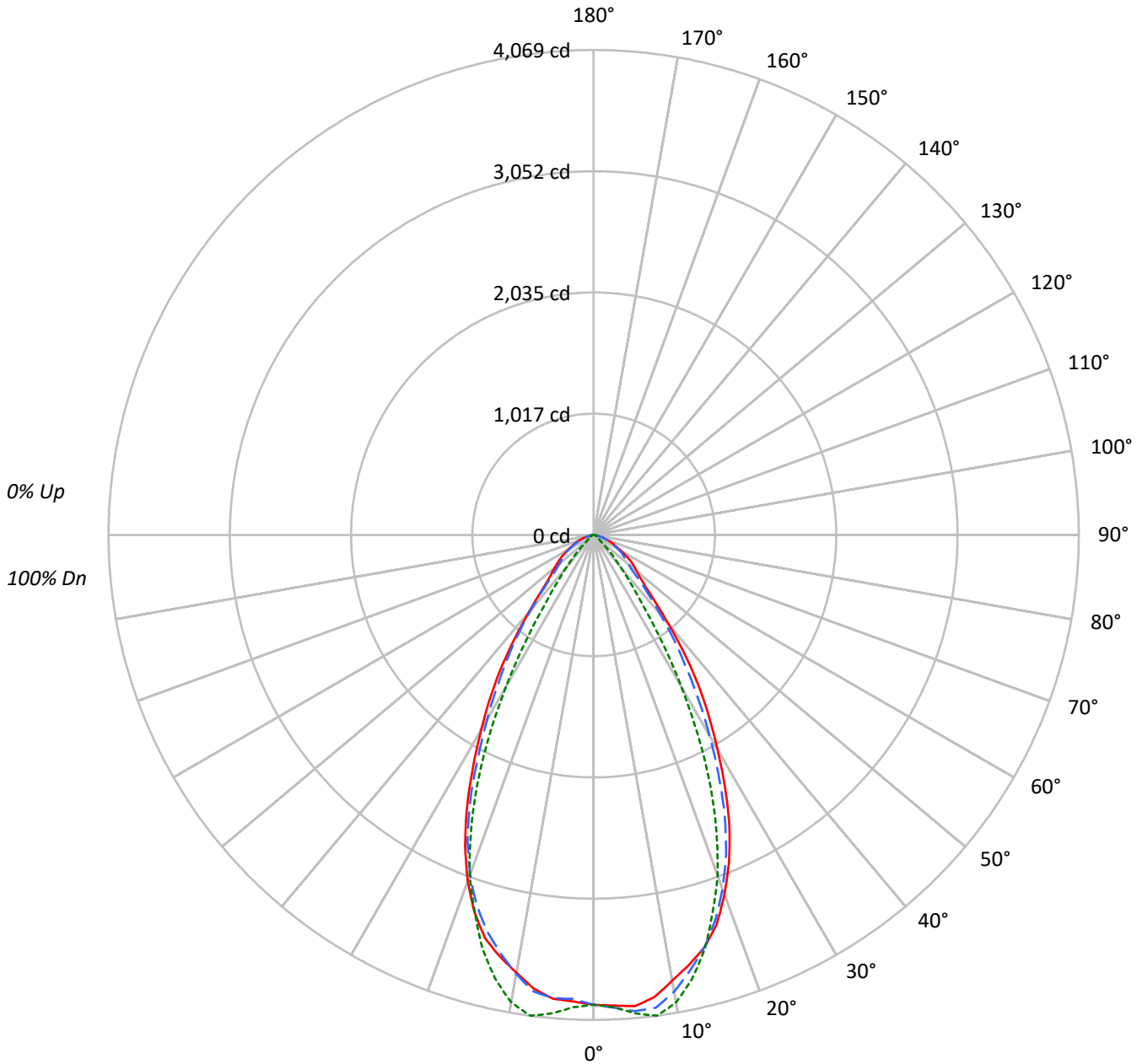
Lumens per Lamp: N/A
Luminaire Lumens: 4014.0 lumens
Efficiency: N/A
Efficacy: 80.9 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.87 / 0.88
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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°	216145	216145	216145
5°	218407	221714	214984
10°	211330	221712	207645
15°	203395	204195	199070
20°	187196	177366	180178
25°	162917	139865	151757
30°	131394	92926	119208
35°	101870	47917	89523
40°	69895	24832	60277
45°	47889	12435	42291
50°	39854	5305	36263
55°	35841	4597	32391
60°	28364	4397	27048
65°	23414	3904	23154
70°	18962	3542	18962
75°	14022	3813	14869
80°	8240	3157	8871
85°	6290	3774	6290



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	375.3	9.4
10°-20°	985.1	24.5
20°-30°	1124.4	28.0
30°-40°	745.7	18.6
40°-50°	359.7	9.0
50°-60°	221.2	5.5
60°-70°	133.9	3.3
70°-80°	56.3	1.4
80°-90°	12.4	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°	2484.8	61.9
0°-40°	3230.5	80.5
0°-60°	3811.4	95.0
0°-90°	4014.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4014.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3943	3943	3943	3943	3943	
5°	3969	4011	4029	3901	3907	373
15°	3584	3584	3598	3445	3508	999
25°	2693	2603	2312	2447	2509	1221
35°	1522	1342	716	1251	1338	941
45°	618	542	160	505	546	504
55°	375	305	48	305	339	330
65°	180	172	30	162	178	181
75°	66	66	18	62	70	71
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°	3942.8	3942.8	3942.8	3942.8	3942.8	3942.8	3942.8	3942.8	3942.8
2.5°	3952.8	3958.9	3970.9	3972.9	3966.9	3928.8	3896.7	3908.7	3918.7
5°	3968.9	3980.9	4011.0	4039.1	4029.0	3964.9	3900.7	3898.7	3906.7
7.5°	3910.7	3938.8	4001.0	4071.2	4069.2	3958.9	3864.6	3840.5	3840.5
10°	3796.4	3822.5	3890.7	3984.9	3982.9	3844.5	3740.3	3728.2	3730.2
12.5°	3694.1	3706.2	3740.3	3814.5	3814.5	3678.1	3597.9	3609.9	3625.9
15°	3583.8	3591.8	3583.8	3607.9	3597.9	3485.6	3445.4	3483.5	3507.6
17.5°	3427.4	3431.4	3389.3	3357.2	3319.1	3248.9	3258.9	3315.1	3321.1
20°	3208.8	3234.9	3158.7	3076.4	3040.3	2974.2	3030.3	3092.5	3088.5
22.5°	2968.1	2998.2	2899.9	2763.6	2689.4	2663.3	2763.6	2819.7	2817.7
25°	2693.4	2715.4	2603.1	2412.6	2312.3	2308.3	2446.7	2504.9	2508.9
27.5°	2384.5	2392.6	2266.2	2017.5	1893.2	1923.3	2097.8	2178.0	2188.0
30°	2075.7	2071.7	1941.3	1632.5	1468.0	1550.2	1784.9	1873.1	1883.2
32.5°	1792.9	1780.9	1632.5	1263.5	1066.9	1189.3	1498.1	1590.4	1606.4
35°	1522.2	1502.1	1341.7	934.6	716.0	898.5	1251.4	1331.7	1337.7
37.5°	1239.4	1229.4	1103.0	699.9	499.4	681.9	1020.8	1079.0	1072.9
40°	976.7	976.7	872.4	519.4	347.0	507.4	808.2	860.4	842.3
42.5°	766.1	776.1	687.9	383.0	246.7	377.0	639.8	687.9	667.8
45°	617.7	617.7	541.5	284.8	160.4	280.8	505.4	549.5	545.5
47.5°	523.4	515.4	439.2	208.6	88.2	210.6	425.2	479.3	477.3
50°	467.3	455.2	377.0	164.5	62.2	174.5	373.0	423.2	425.2
52.5°	423.2	405.1	338.9	146.4	54.1	152.4	338.9	379.0	379.0
55°	375.0	365.0	304.8	130.4	48.1	136.4	304.8	340.9	338.9
57.5°	316.9	314.9	272.7	118.3	44.1	120.3	272.7	294.8	286.8
60°	258.7	266.7	236.6	106.3	40.1	108.3	232.6	250.7	246.7
62.5°	216.6	226.6	206.6	94.3	34.1	96.3	196.5	214.6	210.6
65°	180.5	188.5	172.5	80.2	30.1	80.2	162.4	178.5	178.5
67.5°	148.4	154.4	142.4	66.2	26.1	66.2	132.4	146.4	148.4
70°	118.3	122.3	112.3	52.1	22.1	54.1	104.3	118.3	118.3
72.5°	92.3	94.3	88.2	42.1	20.1	42.1	80.2	92.3	92.3
75°	66.2	70.2	66.2	32.1	18.0	32.1	62.2	68.2	70.2
77.5°	38.1	48.1	48.1	26.1	14.0	24.1	44.1	46.1	46.1
80°	26.1	30.1	34.1	18.0	10.0	18.0	28.1	30.1	28.1
82.5°	18.0	20.1	20.1	12.0	8.0	12.0	18.0	20.1	18.0
85°	10.0	14.0	14.0	10.0	6.0	8.0	10.0	12.0	10.0
87.5°	6.0	8.0	10.0	8.0	6.0	6.0	6.0	6.0	4.0
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)