

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: P799655

Luminaire Tested: **LD6C40D010 EU6409027 6LBMDDWMW**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P799655
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: LD6C40D010 EU6409027 6LBMDDWMW
Description: 6 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 6LBMDDW TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Summary

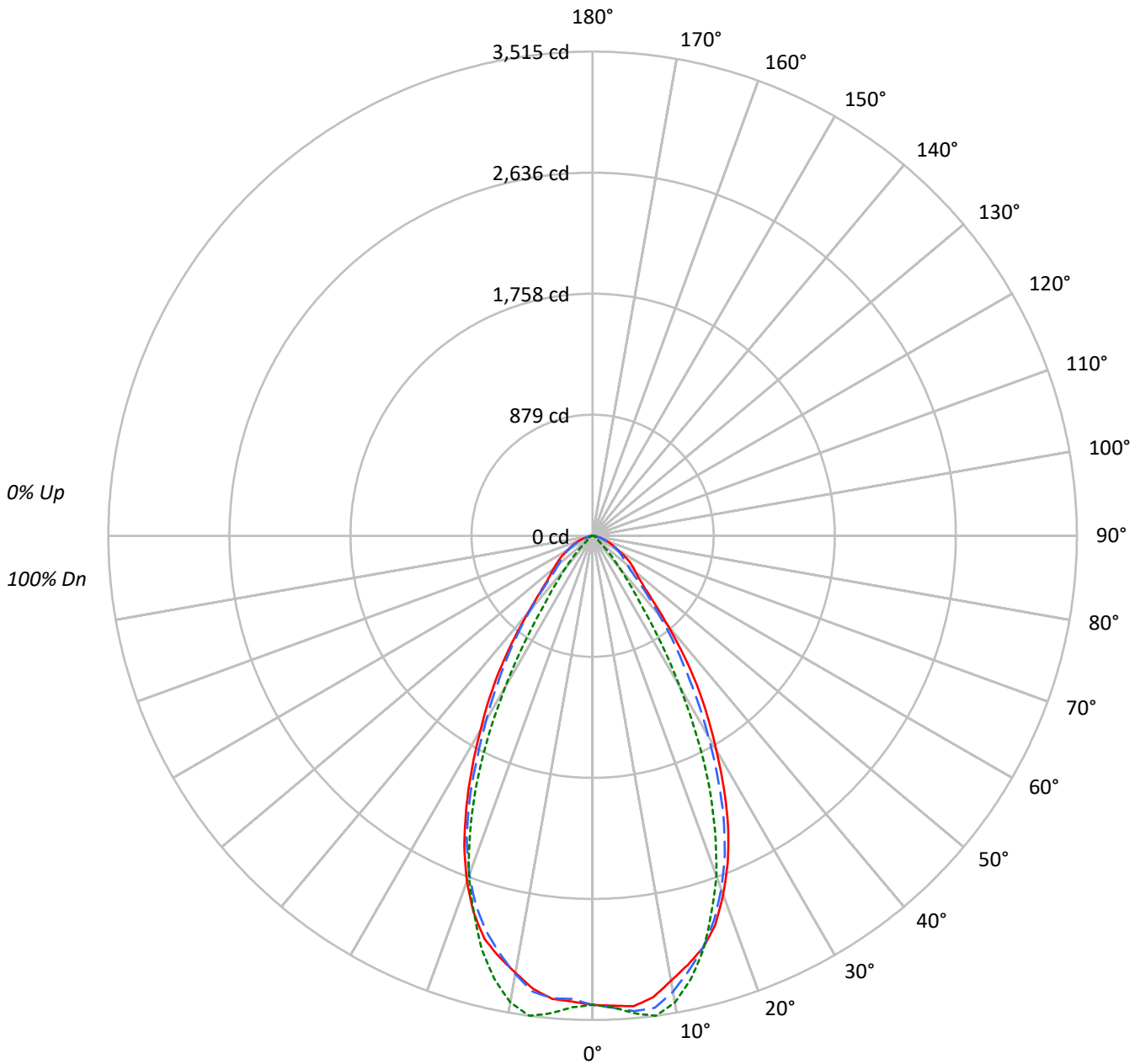
Lumens per Lamp: N/A
Luminaire Lumens: 3467.0 lumens
Efficiency: N/A
Efficacy: 73.8 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.87 / 0.88
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 47
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°	186690	186690	186690
5°	188641	191503	185686
10°	182534	191502	179350
15°	175676	176369	171942
20°	161685	153197	155624
25°	140712	120805	131076
30°	113486	80266	102959
35°	87984	41385	77323
40°	60370	21447	52062
45°	41361	10745	36531
50°	34421	4580	31317
55°	30957	3976	27975
60°	24505	3794	23364
65°	20223	3373	20002
70°	16381	3061	16381
75°	12115	3304	12836
80°	7103	2747	7671
85°	5472	3271	5472



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	324.2	9.4
10°-20°	850.8	24.5
20°-30°	971.2	28.0
30°-40°	644.1	18.6
40°-50°	310.6	9.0
50°-60°	191.1	5.5
60°-70°	115.6	3.3
70°-80°	48.7	1.4
80°-90°	10.7	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°	2146.2	61.9
0°-40°	2790.3	80.5
0°-60°	3292.0	95.0
0°-90°	3467.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3467.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3406	3406	3406	3406	3406	
5°	3428	3464	3480	3369	3374	322
15°	3095	3095	3108	2976	3030	863
25°	2326	2248	1997	2113	2167	1055
35°	1315	1159	618	1081	1155	813
45°	534	468	139	436	471	435
55°	324	263	42	263	293	285
65°	156	149	26	140	154	157
75°	57	57	16	54	61	61
85°	9	12	5	9	9	11
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°	3405.5	3405.5	3405.5	3405.5	3405.5	3405.5	3405.5	3405.5	3405.5
2.5°	3414.2	3419.4	3429.8	3431.5	3426.3	3393.4	3365.7	3376.1	3384.7
5°	3428.0	3438.4	3464.4	3488.7	3480.0	3424.6	3369.1	3367.4	3374.3
7.5°	3377.8	3402.0	3455.7	3516.4	3514.6	3419.4	3338.0	3317.2	3317.2
10°	3279.1	3301.6	3360.5	3441.9	3440.2	3320.6	3230.6	3220.2	3221.9
12.5°	3190.7	3201.1	3230.6	3294.6	3294.6	3176.9	3107.6	3118.0	3131.8
15°	3095.4	3102.4	3095.4	3116.2	3107.6	3010.6	2975.9	3008.8	3029.6
17.5°	2960.3	2963.8	2927.4	2899.7	2866.8	2806.2	2814.8	2863.3	2868.5
20°	2771.5	2794.0	2728.2	2657.2	2626.0	2568.9	2617.4	2671.1	2667.6
22.5°	2563.7	2589.6	2504.8	2387.0	2322.9	2300.4	2387.0	2435.5	2433.7
25°	2326.3	2345.4	2248.4	2083.8	1997.2	1993.8	2113.3	2163.5	2167.0
27.5°	2059.6	2066.5	1957.4	1742.6	1635.2	1661.2	1811.9	1881.2	1889.8
30°	1792.8	1789.4	1676.8	1410.0	1268.0	1339.0	1541.7	1617.9	1626.5
32.5°	1548.6	1538.2	1410.0	1091.3	921.5	1027.2	1294.0	1373.6	1387.5
35°	1314.7	1297.4	1158.8	807.2	618.4	776.0	1080.9	1150.2	1155.4
37.5°	1070.5	1061.8	952.7	604.5	431.3	588.9	881.7	931.9	926.7
40°	843.6	843.6	753.5	448.6	299.7	438.2	698.1	743.1	727.5
42.5°	661.7	670.4	594.1	330.9	213.1	325.7	552.6	594.1	576.8
45°	533.5	533.5	467.7	246.0	138.6	242.5	436.5	474.6	471.2
47.5°	452.1	445.2	379.4	180.1	76.2	181.9	367.2	414.0	412.3
50°	403.6	393.2	325.7	142.0	53.7	150.7	322.2	365.5	367.2
52.5°	365.5	349.9	292.7	126.5	46.8	131.6	292.7	327.4	327.4
55°	323.9	315.3	263.3	112.6	41.6	117.8	263.3	294.5	292.7
57.5°	273.7	272.0	235.6	102.2	38.1	103.9	235.6	254.6	247.7
60°	223.5	230.4	204.4	91.8	34.6	93.5	200.9	216.5	213.1
62.5°	187.1	195.7	178.4	81.4	29.4	83.1	169.8	185.3	181.9
65°	155.9	162.8	149.0	69.3	26.0	69.3	140.3	154.2	154.2
67.5°	128.2	133.4	123.0	57.2	22.5	57.2	114.3	126.5	128.2
70°	102.2	105.7	97.0	45.0	19.1	46.8	90.1	102.2	102.2
72.5°	79.7	81.4	76.2	36.4	17.3	36.4	69.3	79.7	79.7
75°	57.2	60.6	57.2	27.7	15.6	27.7	53.7	58.9	60.6
77.5°	32.9	41.6	41.6	22.5	12.1	20.8	38.1	39.8	39.8
80°	22.5	26.0	29.4	15.6	8.7	15.6	24.3	26.0	24.3
82.5°	15.6	17.3	17.3	10.4	6.9	10.4	15.6	17.3	15.6
85°	8.7	12.1	12.1	8.7	5.2	6.9	8.7	10.4	8.7
87.5°	5.2	6.9	8.7	6.9	5.2	5.2	5.2	5.2	3.5
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)