

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: P799681

Luminaire Tested: **LD6C40D010 EU6409035 6LBMDDWWMH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P799681
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 EU6409035 6LBMDDWWMH
Description: 6 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 6LBMDDW TRIM WITH WMH FINISH
Light Source: -
Ballast/Driver: -

Summary

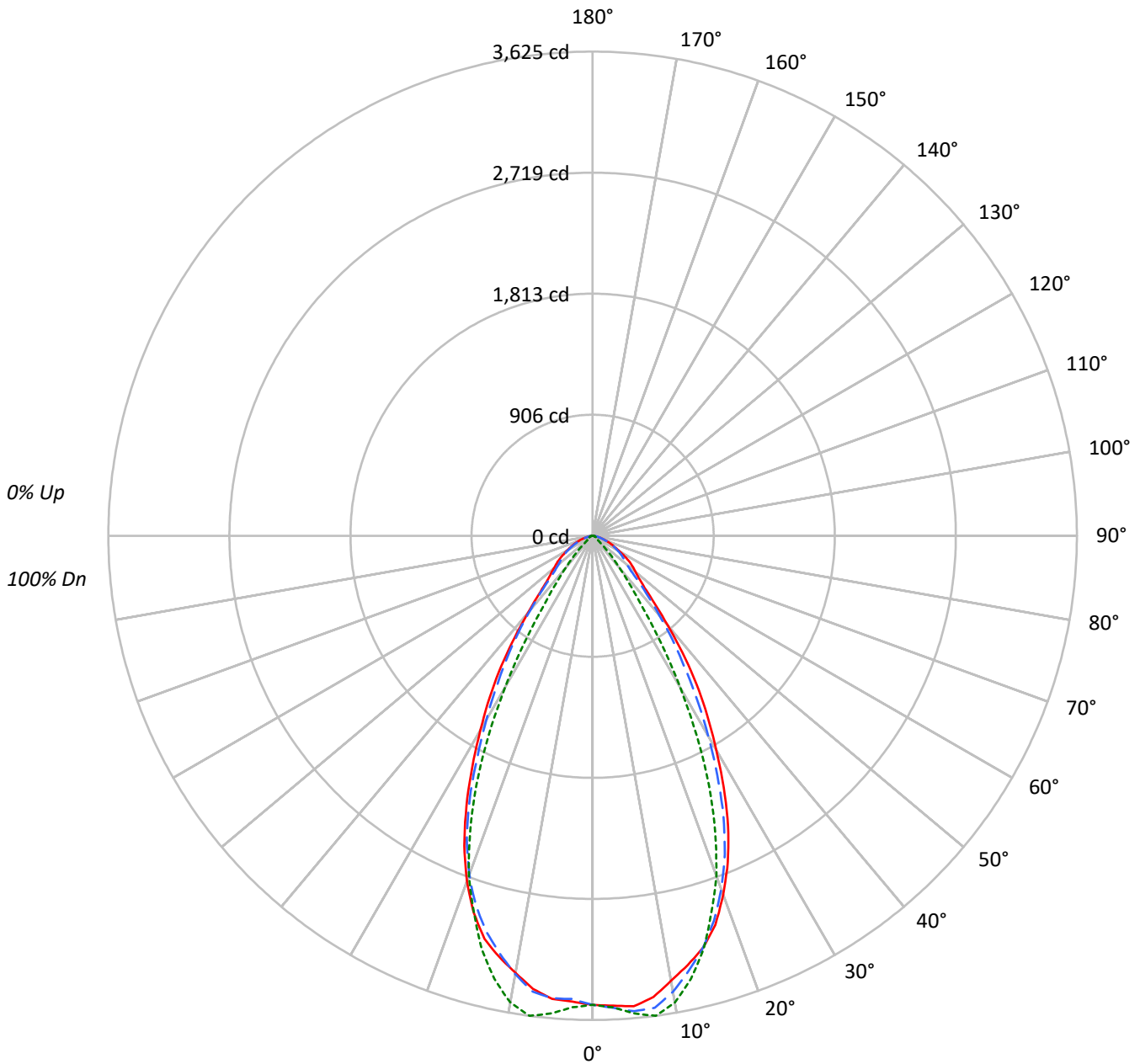
Lumens per Lamp: N/A
Luminaire Lumens: 3576.0 lumens
Efficiency: N/A
Efficacy: 76.1 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.87 / 0.88
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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°	192561	192561	192561
5°	194574	197523	191525
10°	188268	197519	184989
15°	181204	181914	177351
20°	166772	158015	160518
25°	145139	124604	135195
30°	117056	82785	106200
35°	90754	42684	79752
40°	62267	22120	53701
45°	42663	11079	37678
50°	35504	4725	32306
55°	31932	4100	28854
60°	25272	3914	24099
65°	20858	3476	20625
70°	16894	3158	16894
75°	12497	3410	13238
80°	7324	2810	7892
85°	5598	3397	5598



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	334.4	9.4
10°-20°	877.6	24.5
20°-30°	1001.7	28.0
30°-40°	664.3	18.6
40°-50°	320.4	9.0
50°-60°	197.1	5.5
60°-70°	119.3	3.3
70°-80°	50.2	1.4
80°-90°	11.1	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°	2213.7	61.9
0°-40°	2878.0	80.5
0°-60°	3395.5	95.0
0°-90°	3576.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3576.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3513	3513	3513	3513	3513	
5°	3536	3573	3589	3475	3480	332
15°	3193	3193	3205	3070	3125	890
25°	2400	2319	2060	2180	2235	1088
35°	1356	1195	638	1115	1192	839
45°	550	482	143	450	486	449
55°	334	272	43	272	302	294
65°	161	154	27	145	159	161
75°	59	59	16	55	62	63
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°	3512.6	3512.6	3512.6	3512.6	3512.6	3512.6	3512.6	3512.6	3512.6
2.5°	3521.5	3526.9	3537.6	3539.4	3534.0	3500.1	3471.5	3482.2	3491.1
5°	3535.8	3546.5	3573.3	3598.3	3589.4	3532.2	3475.1	3473.3	3480.4
7.5°	3484.0	3509.0	3564.4	3626.9	3625.1	3526.9	3442.9	3421.5	3421.5
10°	3382.1	3405.4	3466.1	3550.1	3548.3	3425.0	3332.1	3321.4	3323.2
12.5°	3291.0	3301.7	3332.1	3398.2	3398.2	3276.7	3205.3	3216.0	3230.3
15°	3192.8	3199.9	3192.8	3214.2	3205.3	3105.2	3069.5	3103.4	3124.9
17.5°	3053.4	3057.0	3019.5	2990.9	2956.9	2894.4	2903.3	2953.4	2958.7
20°	2858.7	2881.9	2814.0	2740.7	2708.6	2649.6	2699.6	2755.0	2751.5
22.5°	2644.3	2671.1	2583.5	2462.0	2395.9	2372.7	2462.0	2512.0	2510.3
25°	2399.5	2419.1	2319.1	2149.4	2060.0	2056.4	2179.7	2231.5	2235.1
27.5°	2124.3	2131.5	2018.9	1797.4	1686.6	1713.4	1868.8	1940.3	1949.2
30°	1849.2	1845.6	1729.5	1454.3	1307.8	1381.1	1590.1	1668.7	1677.7
32.5°	1597.3	1586.6	1454.3	1125.6	950.5	1059.5	1334.6	1416.8	1431.1
35°	1356.1	1338.2	1195.3	832.6	637.8	800.4	1114.9	1186.3	1191.7
37.5°	1104.2	1095.2	982.7	623.5	444.9	607.5	909.4	961.2	955.9
40°	870.1	870.1	777.2	462.7	309.1	452.0	720.0	766.5	750.4
42.5°	682.5	691.4	612.8	341.3	219.8	335.9	569.9	612.8	595.0
45°	550.3	550.3	482.4	253.7	142.9	250.1	450.2	489.5	486.0
47.5°	466.3	459.2	391.3	185.8	78.6	187.6	378.8	427.0	425.2
50°	416.3	405.6	335.9	146.5	55.4	155.4	332.3	377.0	378.8
52.5°	377.0	360.9	301.9	130.4	48.2	135.8	301.9	337.7	337.7
55°	334.1	325.2	271.6	116.1	42.9	121.5	271.6	303.7	301.9
57.5°	282.3	280.5	243.0	105.4	39.3	107.2	243.0	262.6	255.5
60°	230.5	237.6	210.8	94.7	35.7	96.5	207.3	223.3	219.8
62.5°	193.0	201.9	184.0	84.0	30.4	85.8	175.1	191.2	187.6
65°	160.8	167.9	153.7	71.5	26.8	71.5	144.7	159.0	159.0
67.5°	132.2	137.6	126.9	59.0	23.2	59.0	117.9	130.4	132.2
70°	105.4	109.0	100.1	46.5	19.7	48.2	92.9	105.4	105.4
72.5°	82.2	84.0	78.6	37.5	17.9	37.5	71.5	82.2	82.2
75°	59.0	62.5	59.0	28.6	16.1	28.6	55.4	60.7	62.5
77.5°	33.9	42.9	42.9	23.2	12.5	21.4	39.3	41.1	41.1
80°	23.2	26.8	30.4	16.1	8.9	16.1	25.0	26.8	25.0
82.5°	16.1	17.9	17.9	10.7	7.1	10.7	16.1	17.9	16.1
85°	8.9	12.5	12.5	8.9	5.4	7.1	8.9	10.7	8.9
87.5°	5.4	7.1	8.9	7.1	5.4	5.4	5.4	5.4	3.6
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)