

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: P799666

Luminaire Tested: **LD6C40D010 EU6409030 6LBMDDWLI**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P799666
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 EU6409030 6LBMDDWLI
Description: 6 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 6LBMDDW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

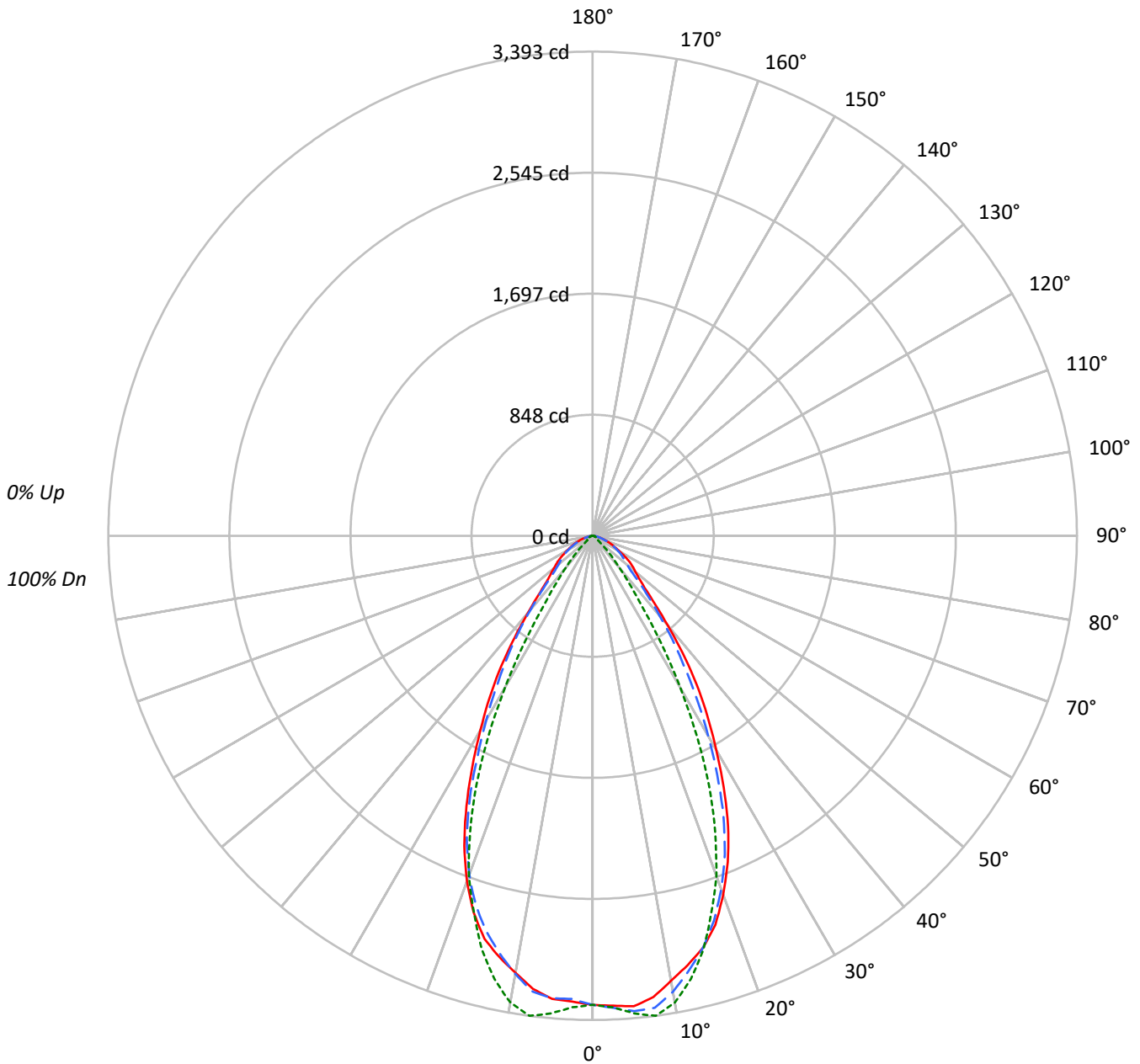
Lumens per Lamp: N/A
Luminaire Lumens: 3347.0 lumens
Efficiency: N/A
Efficacy: 71.2 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.87 / 0.88
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	180227	180227	180227
5°	182115	184872	179259
10°	176216	184872	173143
15°	169598	170262	165994
20°	156090	147894	150239
25°	135843	116626	126540
30°	109561	77487	99395
35°	84939	39953	74646
40°	58281	20703	50258
45°	39934	10373	35267
50°	33227	4418	30234
55°	29887	3833	27010
60°	23649	3662	22553
65°	19522	3256	19302
70°	15820	2949	15820
75°	11692	3198	12391
80°	6851	2652	7387
85°	5284	3145	5284



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	312.9	9.4
10°-20°	821.4	24.5
20°-30°	937.6	28.0
30°-40°	621.8	18.6
40°-50°	299.9	9.0
50°-60°	184.5	5.5
60°-70°	111.6	3.3
70°-80°	47.0	1.4
80°-90°	10.4	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°	2071.9	61.9
0°-40°	2693.7	80.5
0°-60°	3178.0	95.0
0°-90°	3347.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3347.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3288	3288	3288	3288	3288	
5°	3309	3344	3360	3252	3258	311
15°	2988	2988	3000	2873	2925	833
25°	2246	2171	1928	2040	2092	1018
35°	1269	1119	597	1044	1115	785
45°	515	452	134	421	455	420
55°	313	254	40	254	283	275
65°	150	144	25	136	149	151
75°	55	55	15	52	58	59
85°	8	12	5	8	8	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°	3287.6	3287.6	3287.6	3287.6	3287.6	3287.6	3287.6	3287.6	3287.6
2.5°	3296.0	3301.0	3311.0	3312.7	3307.7	3275.9	3249.2	3259.2	3267.6
5°	3309.4	3319.4	3344.5	3367.9	3359.5	3306.0	3252.5	3250.8	3257.5
7.5°	3260.9	3284.3	3336.1	3394.7	3393.0	3301.0	3222.4	3202.4	3202.4
10°	3165.6	3187.3	3244.2	3322.8	3321.1	3205.7	3118.7	3108.7	3110.4
12.5°	3080.3	3090.3	3118.7	3180.6	3180.6	3066.9	3000.0	3010.0	3023.4
15°	2988.3	2995.0	2988.3	3008.4	3000.0	2906.4	2872.9	2904.7	2924.8
17.5°	2857.9	2861.2	2826.1	2799.3	2767.6	2709.0	2717.4	2764.2	2769.2
20°	2675.6	2697.3	2633.8	2565.2	2535.1	2479.9	2526.8	2578.6	2575.3
22.5°	2474.9	2500.0	2418.1	2304.4	2242.5	2220.7	2304.4	2351.2	2349.5
25°	2245.8	2264.2	2170.6	2011.7	1928.1	1924.8	2040.1	2088.6	2092.0
27.5°	1988.3	1995.0	1889.6	1682.3	1578.6	1603.7	1749.2	1816.1	1824.4
30°	1730.8	1727.4	1618.7	1361.2	1224.1	1292.6	1488.3	1561.9	1570.2
32.5°	1495.0	1485.0	1361.2	1053.5	889.6	991.6	1249.2	1326.1	1339.5
35°	1269.2	1252.5	1118.7	779.3	597.0	749.2	1043.5	1110.4	1115.4
37.5°	1033.4	1025.1	919.7	583.6	416.4	568.6	851.2	899.7	894.7
40°	814.4	814.4	727.4	433.1	289.3	423.1	673.9	717.4	702.3
42.5°	638.8	647.2	573.6	319.4	205.7	314.4	533.4	573.6	556.9
45°	515.1	515.1	451.5	237.5	133.8	234.1	421.4	458.2	454.9
47.5°	436.5	429.8	366.2	173.9	73.6	175.6	354.5	399.7	398.0
50°	389.6	379.6	314.4	137.1	51.8	145.5	311.0	352.8	354.5
52.5°	352.8	337.8	282.6	122.1	45.2	127.1	282.6	316.1	316.1
55°	312.7	304.3	254.2	108.7	40.1	113.7	254.2	284.3	282.6
57.5°	264.2	262.5	227.4	98.7	36.8	100.3	227.4	245.8	239.1
60°	215.7	222.4	197.3	88.6	33.4	90.3	194.0	209.0	205.7
62.5°	180.6	189.0	172.2	78.6	28.4	80.3	163.9	178.9	175.6
65°	150.5	157.2	143.8	66.9	25.1	66.9	135.5	148.8	148.8
67.5°	123.7	128.8	118.7	55.2	21.7	55.2	110.4	122.1	123.7
70°	98.7	102.0	93.6	43.5	18.4	45.2	87.0	98.7	98.7
72.5°	76.9	78.6	73.6	35.1	16.7	35.1	66.9	76.9	76.9
75°	55.2	58.5	55.2	26.8	15.1	26.8	51.8	56.9	58.5
77.5°	31.8	40.1	40.1	21.7	11.7	20.1	36.8	38.5	38.5
80°	21.7	25.1	28.4	15.1	8.4	15.1	23.4	25.1	23.4
82.5°	15.1	16.7	16.7	10.0	6.7	10.0	15.1	16.7	15.1
85°	8.4	11.7	11.7	8.4	5.0	6.7	8.4	10.0	8.4
87.5°	5.0	6.7	8.4	6.7	5.0	5.0	5.0	5.0	3.3
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)