

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: P799662

Luminaire Tested: **LD6C40D010 EU6409027 6LBMDSWWH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P799662
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2309-186-5)
Test Lab: INNOVATION CENTER
Issue Date: 4/12/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD6C40D010 EU6409027 6LBMDSWWH
Description: 6 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 6LBMDSW TRIM WITH WH FINISH
Light Source: -
Ballast/Driver: -

Summary

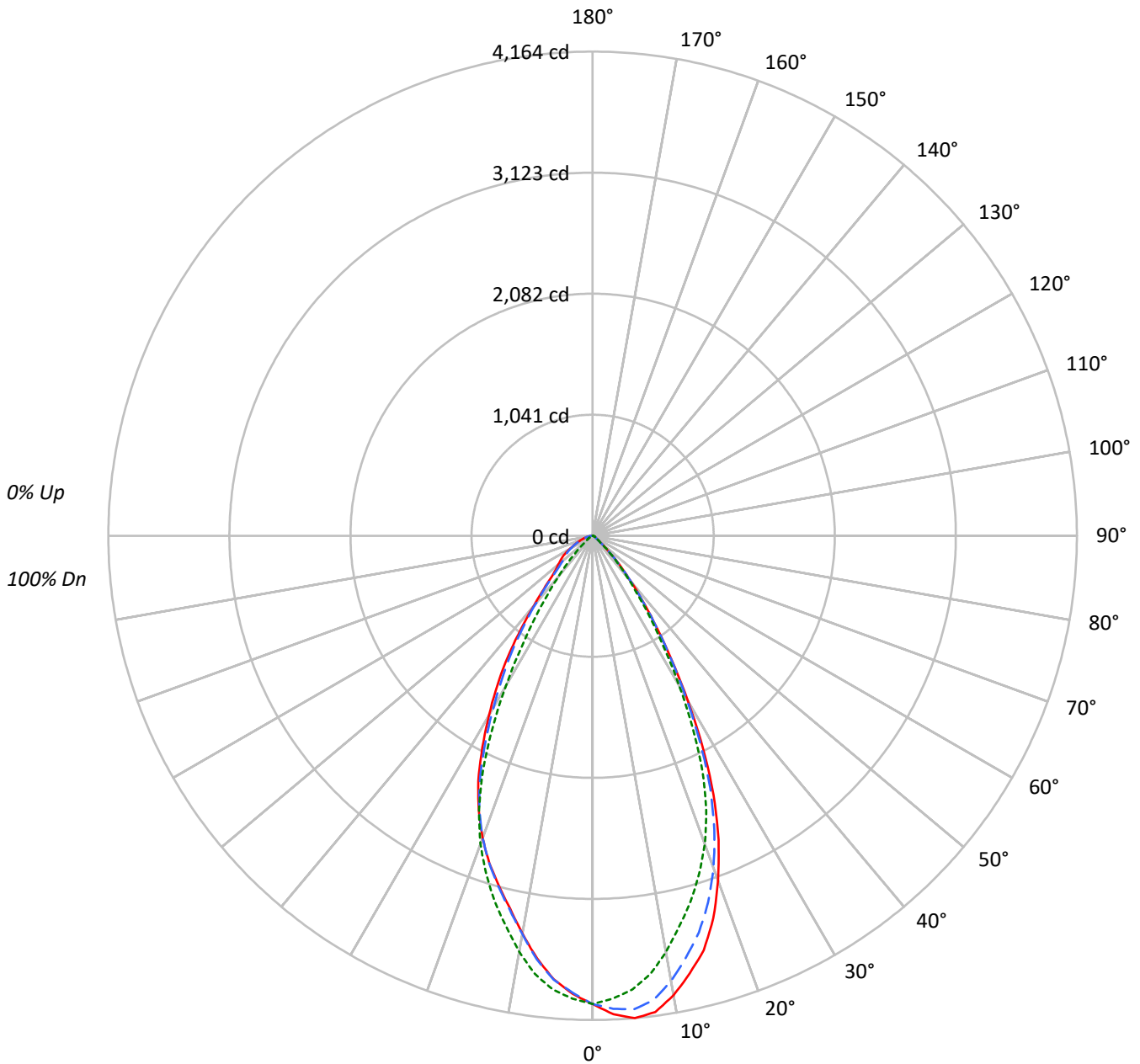
Lumens per Lamp: N/A
Luminaire Lumens: 3467.0 lumens
Efficiency: N/A
Efficacy: 73.8 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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				100				
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92				92				
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85				85				
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78				78				
4	96	88	82	77	94	87	81	77	84	80	76	82	78	75	80	77	74	73				73				
5	91	82	76	71	89	81	75	71	79	74	70	77	73	70	76	72	69	67				67				
6	86	77	70	66	84	76	70	66	74	69	65	73	68	65	71	67	64	63				63				
7	82	72	66	61	80	71	65	61	70	65	61	69	64	60	68	63	60	59				59				
8	78	68	61	57	76	67	61	57	66	61	57	65	60	57	64	60	56	55				55				
9	74	64	58	54	73	63	58	54	62	57	53	61	57	53	61	56	53	52				52				
10	70	60	54	50	69	60	54	50	59	54	50	58	53	50	58	53	50	49				49				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	220755	220755	220755
5°	229149	215573	210697
10°	223287	202206	193311
15°	209417	184768	176777
20°	183842	164485	161347
25°	148690	135135	140700
30°	103370	94135	112606
35°	63711	57668	84986
40°	36053	32325	56441
45°	17506	16699	38516
50°	6669	6669	32741
55°	3651	4320	30221
60°	2664	3432	24757
65°	2257	2932	20275
70°	1955	2500	16702
75°	1843	2584	14361
80°	1105	2178	10418
85°	1069	4340	9812



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	368.6	10.6
10°-20°	926.5	26.7
20°-30°	1043.0	30.1
30°-40°	645.9	18.6
40°-50°	257.2	7.4
50°-60°	117.1	3.4
60°-70°	67.3	1.9
70°-80°	32.0	0.9
80°-90°	9.3	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°	2338.2	67.4
0°-40°	2984.1	86.1
0°-60°	3358.4	96.9
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°	4027	4027	4027	4027	4027	
5°	4164	4088	3917	3832	3829	392
15°	3690	3530	3256	3124	3115	1021
25°	2458	2392	2234	2290	2326	1105
35°	952	947	862	1200	1270	612
45°	226	226	215	469	497	191
55°	38	36	45	278	316	38
65°	17	16	23	155	156	17
75°	9	9	12	66	68	9
85°	2	2	7	16	16	1
90°	0	0	0	0	0	



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CATALOG NUMBER: LD6C40D010 EU6409027 6LBMSWWH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	4026.9	4026.9	4026.9	4026.9	4026.9	4026.9	4026.9	4026.9	4026.9
2.5°	4118.9	4080.7	4072.0	4039.0	3983.4	3952.2	3933.1	3919.2	3943.5
5°	4164.1	4122.4	4087.7	4019.9	3917.4	3860.1	3832.3	3809.7	3828.8
7.5°	4131.1	4072.0	4025.1	3931.3	3801.0	3712.4	3674.2	3648.2	3665.5
10°	4011.2	3940.0	3886.2	3775.0	3632.5	3526.6	3479.7	3455.3	3472.7
12.5°	3854.9	3795.8	3714.2	3592.6	3439.7	3328.5	3293.8	3274.7	3281.6
15°	3689.9	3620.4	3530.0	3408.4	3255.6	3144.4	3123.5	3111.4	3114.8
17.5°	3450.1	3382.4	3304.2	3186.1	3045.3	2955.0	2955.0	2946.3	2951.5
20°	3151.3	3114.8	3038.4	2939.4	2819.5	2737.9	2763.9	2755.2	2765.7
22.5°	2828.2	2800.4	2734.4	2652.7	2552.0	2487.7	2545.0	2543.3	2557.2
25°	2458.2	2437.3	2392.2	2322.7	2234.1	2194.1	2289.7	2289.7	2326.1
27.5°	2049.9	2029.1	1997.8	1938.7	1865.8	1853.6	1994.3	2011.7	2051.7
30°	1633.0	1619.1	1601.7	1547.9	1487.1	1509.6	1704.2	1733.7	1778.9
32.5°	1261.2	1252.5	1247.3	1198.7	1144.8	1219.5	1441.9	1480.1	1525.3
35°	952.0	932.9	946.8	910.3	861.7	955.5	1200.4	1233.4	1269.9
37.5°	701.8	687.9	700.1	674.0	630.6	733.1	964.2	985.0	1009.3
40°	503.8	491.6	502.1	486.4	451.7	547.2	755.7	778.3	788.7
42.5°	357.9	337.0	347.4	335.3	317.9	411.7	594.1	615.0	618.5
45°	225.8	218.9	225.8	218.9	215.4	305.8	469.0	488.2	496.8
47.5°	137.2	128.6	128.6	125.1	128.6	225.8	387.4	415.2	429.1
50°	78.2	74.7	73.0	71.2	78.2	177.2	335.3	366.6	383.9
52.5°	52.1	50.4	50.4	48.6	57.3	149.4	302.3	330.1	347.4
55°	38.2	36.5	36.5	36.5	45.2	128.6	278.0	300.5	316.2
57.5°	29.5	29.5	29.5	27.8	38.2	109.4	248.4	260.6	272.7
60°	24.3	22.6	22.6	22.6	31.3	93.8	213.7	218.9	225.8
62.5°	19.1	19.1	19.1	19.1	26.1	83.4	184.1	184.1	187.6
65°	17.4	15.6	15.6	15.6	22.6	73.0	154.6	152.9	156.3
67.5°	13.9	13.9	13.9	13.9	19.1	62.5	126.8	125.1	128.6
70°	12.2	12.2	12.2	12.2	15.6	52.1	102.5	100.8	104.2
72.5°	10.4	10.4	10.4	10.4	13.9	43.4	81.6	81.6	83.4
75°	8.7	8.7	8.7	8.7	12.2	33.0	66.0	66.0	67.8
77.5°	6.9	6.9	6.9	6.9	8.7	26.1	50.4	48.6	48.6
80°	3.5	5.2	5.2	5.2	6.9	19.1	36.5	33.0	33.0
82.5°	1.7	3.5	3.5	3.5	6.9	13.9	24.3	22.6	22.6
85°	1.7	1.7	1.7	5.2	6.9	10.4	15.6	15.6	15.6
87.5°	0.0	1.7	3.5	6.9	8.7	8.7	10.4	8.7	8.7
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)