

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: P799696

Luminaire Tested: **LD6C40D010 EU6409040 6LBMDSWLI**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P799696
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 EU6409040 6LBMDSWLI
Description: 6 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 6LBMDSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

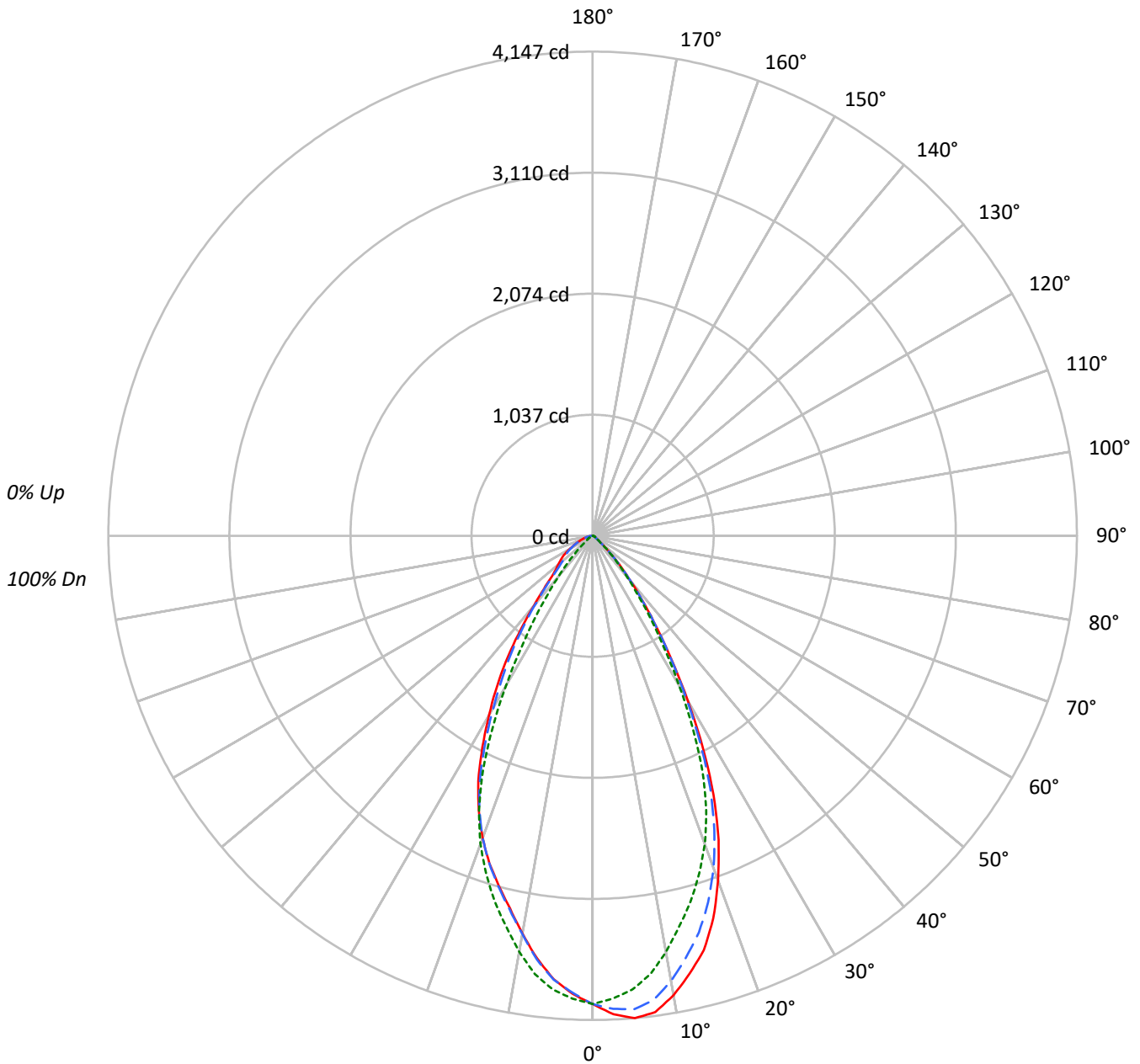
Lumens per Lamp: N/A
Luminaire Lumens: 3453.0 lumens
Efficiency: N/A
Efficacy: 73.5 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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	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°	219862	219862	219862
5°	228224	214703	209850
10°	222385	201394	192532
15°	208571	184019	176068
20°	183101	163820	160693
25°	148085	134584	140131
30°	102953	93755	112150
35°	63456	57433	84644
40°	35910	32196	56212
45°	17436	16630	38361
50°	6644	6644	32613
55°	3641	4301	30097
60°	2653	3410	24658
65°	2244	2919	20197
70°	1939	2500	16637
75°	1843	2563	14297
80°	1105	2178	10386
85°	1069	4340	9812



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	367.2	10.6
10°-20°	922.8	26.7
20°-30°	1038.8	30.1
30°-40°	643.3	18.6
40°-50°	256.2	7.4
50°-60°	116.6	3.4
60°-70°	67.0	1.9
70°-80°	31.8	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°	2328.8	67.4
0°-40°	2972.1	86.1
0°-60°	3344.8	96.9
0°-90°	3453.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3453.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4011	4011	4011	4011	4011	
5°	4147	4071	3902	3817	3813	391
15°	3675	3516	3242	3111	3102	1017
25°	2448	2382	2225	2280	2317	1101
35°	948	943	858	1196	1265	609
45°	225	225	214	467	495	191
55°	38	36	45	277	315	38
65°	17	16	22	154	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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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	4010.6	4010.6	4010.6	4010.6	4010.6	4010.6	4010.6	4010.6	4010.6
2.5°	4102.3	4064.3	4055.6	4022.7	3967.4	3936.2	3917.2	3903.3	3927.6
5°	4147.3	4105.8	4071.2	4003.7	3901.6	3844.5	3816.8	3794.3	3813.4
7.5°	4114.4	4055.6	4008.9	3915.5	3785.7	3697.4	3659.4	3633.4	3650.7
10°	3995.0	3924.1	3870.5	3759.7	3617.9	3512.3	3465.6	3441.4	3458.7
12.5°	3839.3	3780.5	3699.2	3578.1	3425.8	3315.1	3280.5	3261.4	3268.4
15°	3675.0	3605.7	3515.8	3394.7	3242.4	3131.7	3110.9	3098.8	3102.3
17.5°	3436.2	3368.7	3290.9	3173.2	3033.0	2943.1	2943.1	2934.4	2939.6
20°	3138.6	3102.3	3026.1	2927.5	2808.1	2726.8	2752.8	2744.1	2754.5
22.5°	2816.8	2789.1	2723.3	2642.0	2541.7	2477.7	2534.8	2533.0	2546.9
25°	2448.2	2427.5	2382.5	2313.3	2225.0	2185.2	2280.4	2280.4	2316.7
27.5°	2041.6	2020.9	1989.7	1930.9	1858.2	1846.1	1986.3	2003.6	2043.4
30°	1626.4	1612.6	1595.2	1541.6	1481.1	1503.5	1697.3	1726.7	1771.7
32.5°	1256.1	1247.5	1242.3	1193.8	1140.2	1214.6	1436.1	1474.1	1519.1
35°	948.2	929.1	943.0	906.6	858.2	951.6	1195.6	1228.4	1264.8
37.5°	699.0	685.2	697.3	671.3	628.1	730.1	960.3	981.0	1005.2
40°	501.8	489.6	500.0	484.5	449.9	545.0	752.6	775.1	785.5
42.5°	356.4	335.7	346.0	333.9	316.6	410.1	591.7	612.5	616.0
45°	224.9	218.0	224.9	218.0	214.5	304.5	467.2	486.2	494.8
47.5°	136.7	128.0	128.0	124.6	128.0	224.9	385.8	413.5	427.4
50°	77.9	74.4	72.7	70.9	77.9	176.5	333.9	365.1	382.4
52.5°	51.9	50.2	50.2	48.4	57.1	148.8	301.1	328.7	346.0
55°	38.1	36.3	36.3	36.3	45.0	128.0	276.8	299.3	314.9
57.5°	29.4	29.4	29.4	27.7	38.1	109.0	247.4	259.5	271.6
60°	24.2	22.5	22.5	22.5	31.1	93.4	212.8	218.0	224.9
62.5°	19.0	19.0	19.0	19.0	26.0	83.0	183.4	183.4	186.9
65°	17.3	15.6	15.6	15.6	22.5	72.7	154.0	152.3	155.7
67.5°	13.8	13.8	13.8	13.8	19.0	62.3	126.3	124.6	128.0
70°	12.1	12.1	12.1	12.1	15.6	51.9	102.1	100.4	103.8
72.5°	10.4	10.4	10.4	10.4	13.8	43.3	81.3	81.3	83.0
75°	8.7	8.7	8.7	8.7	12.1	32.9	65.7	65.7	67.5
77.5°	6.9	6.9	6.9	6.9	8.7	26.0	50.2	48.4	48.4
80°	3.5	5.2	5.2	5.2	6.9	19.0	36.3	32.9	32.9
82.5°	1.7	3.5	3.5	3.5	6.9	13.8	24.2	22.5	22.5
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)