

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: P799673

Luminaire Tested: **LD6C40D010 EU6409030 6LBMDSWMW**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P799673
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 EU6409030 6LBMDSWMW
Description: 6 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 6LBMDSW TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Summary

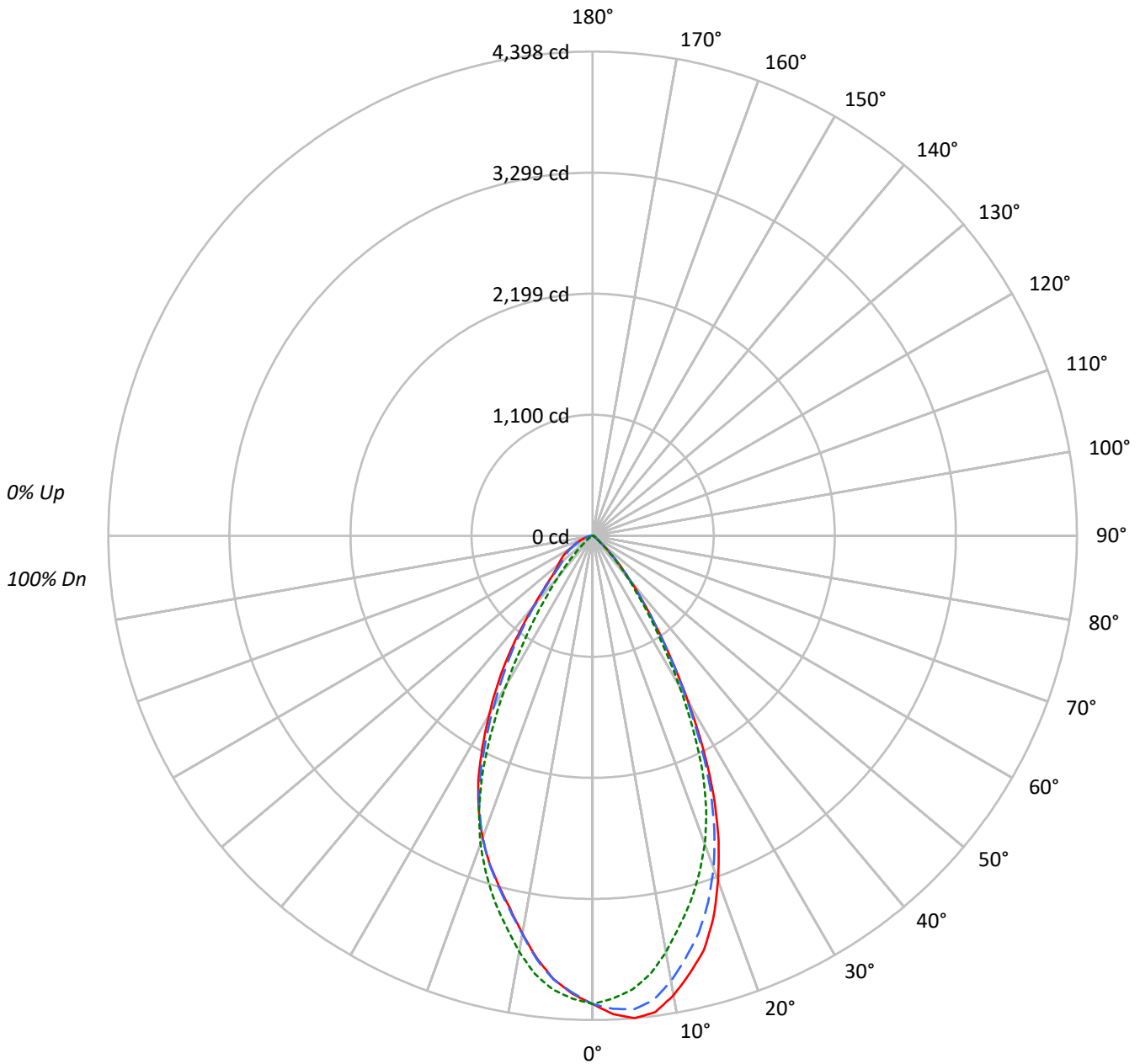
Lumens per Lamp: N/A
Luminaire Lumens: 3662.0 lumens
Efficiency: N/A
Efficacy: 77.9 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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°	233172	233172	233172
5°	242037	227701	222551
10°	235851	213579	204182
15°	221193	195160	186721
20°	194185	173738	170418
25°	157049	142732	148617
30°	109181	99427	118942
35°	67291	60907	89764
40°	38078	34143	59619
45°	18490	17637	40686
50°	7045	7045	34583
55°	3861	4559	31922
60°	2818	3618	26149
65°	2374	3100	21416
70°	2052	2645	17647
75°	1949	2711	15166
80°	1168	2305	11018
85°	1132	4592	10378



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	389.4	10.6
10°-20°	978.7	26.7
20°-30°	1101.7	30.1
30°-40°	682.2	18.6
40°-50°	271.7	7.4
50°-60°	123.7	3.4
60°-70°	71.1	1.9
70°-80°	33.8	0.9
80°-90°	9.9	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°	2469.7	67.4
0°-40°	3151.9	86.1
0°-60°	3547.3	96.9
0°-90°	3662.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3662.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4253	4253	4253	4253	4253	
5°	4398	4318	4138	4048	4044	414
15°	3897	3729	3439	3299	3290	1078
25°	2596	2527	2360	2418	2457	1167
35°	1006	1000	910	1268	1341	646
45°	238	238	228	495	525	202
55°	40	38	48	294	334	40
65°	18	16	24	163	165	18
75°	9	9	13	70	72	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°	4253.4	4253.4	4253.4	4253.4	4253.4	4253.4	4253.4	4253.4	4253.4
2.5°	4350.6	4310.2	4301.1	4266.2	4207.5	4174.5	4154.3	4139.6	4165.3
5°	4398.3	4354.3	4317.6	4246.0	4137.8	4077.2	4047.9	4024.0	4044.2
7.5°	4363.5	4301.1	4251.5	4152.4	4014.8	3921.2	3880.9	3853.4	3871.7
10°	4236.9	4161.6	4104.7	3987.3	3836.8	3724.9	3675.4	3649.7	3668.0
12.5°	4071.7	4009.3	3923.1	3794.6	3633.2	3515.7	3479.0	3458.8	3466.2
15°	3897.4	3824.0	3728.6	3600.1	3438.7	3321.2	3299.2	3286.4	3290.0
17.5°	3644.2	3572.6	3490.0	3365.3	3216.6	3121.2	3121.2	3112.0	3117.5
20°	3328.6	3290.0	3209.3	3104.7	2978.1	2891.8	2919.4	2910.2	2921.2
22.5°	2987.3	2957.9	2888.2	2801.9	2695.5	2627.6	2688.2	2686.3	2701.0
25°	2596.4	2574.4	2526.7	2453.3	2359.7	2317.5	2418.4	2418.4	2457.0
27.5°	2165.2	2143.2	2110.2	2047.8	1970.7	1957.9	2106.5	2124.8	2167.1
30°	1724.8	1710.2	1691.8	1634.9	1570.7	1594.6	1800.1	1831.3	1879.0
32.5°	1332.2	1323.0	1317.5	1266.1	1209.2	1288.1	1523.0	1563.4	1611.1
35°	1005.5	985.4	1000.0	961.5	910.1	1009.2	1267.9	1302.8	1341.3
37.5°	741.3	726.6	739.5	712.0	666.1	774.3	1018.4	1040.4	1066.1
40°	532.1	519.3	530.3	513.8	477.1	578.0	798.2	822.0	833.1
42.5°	378.0	356.0	367.0	354.1	335.8	434.9	627.5	649.6	653.2
45°	238.5	231.2	238.5	231.2	227.5	322.9	495.4	515.6	524.8
47.5°	145.0	135.8	135.8	132.1	135.8	238.5	409.2	438.5	453.2
50°	82.6	78.9	77.1	75.2	82.6	187.2	354.1	387.2	405.5
52.5°	55.0	53.2	53.2	51.4	60.6	157.8	319.3	348.6	367.0
55°	40.4	38.5	38.5	38.5	47.7	135.8	293.6	317.4	334.0
57.5°	31.2	31.2	31.2	29.4	40.4	115.6	262.4	275.2	288.1
60°	25.7	23.9	23.9	23.9	33.0	99.1	225.7	231.2	238.5
62.5°	20.2	20.2	20.2	20.2	27.5	88.1	194.5	194.5	198.2
65°	18.3	16.5	16.5	16.5	23.9	77.1	163.3	161.5	165.1
67.5°	14.7	14.7	14.7	14.7	20.2	66.1	133.9	132.1	135.8
70°	12.8	12.8	12.8	12.8	16.5	55.0	108.3	106.4	110.1
72.5°	11.0	11.0	11.0	11.0	14.7	45.9	86.2	86.2	88.1
75°	9.2	9.2	9.2	9.2	12.8	34.9	69.7	69.7	71.6
77.5°	7.3	7.3	7.3	7.3	9.2	27.5	53.2	51.4	51.4
80°	3.7	5.5	5.5	5.5	7.3	20.2	38.5	34.9	34.9
82.5°	1.8	3.7	3.7	3.7	7.3	14.7	25.7	23.9	23.9
85°	1.8	1.8	1.8	5.5	7.3	11.0	16.5	16.5	16.5
87.5°	0.0	1.8	3.7	7.3	9.2	9.2	11.0	9.2	9.2
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)