

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: P799735

Luminaire Tested: **LD6C45D010 EU6459030 6LBMDSWWMH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P799735
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: LD6C45D010 EU6459030 6LBMDSWWMH
Description: 6 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 6LBMDSW TRIM WITH WMH FINISH
Light Source: -
Ballast/Driver: -

Summary

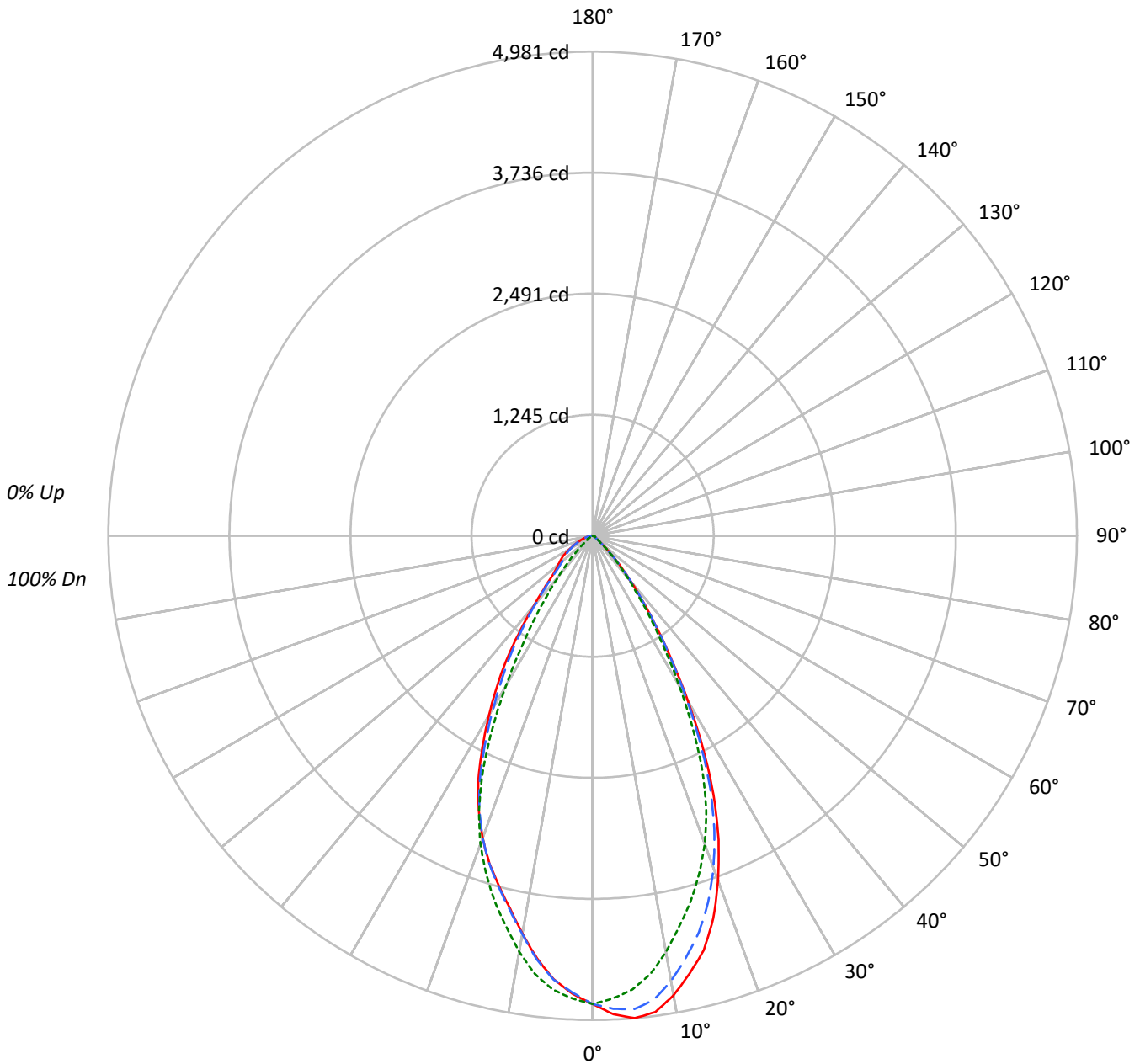
Lumens per Lamp: N/A
Luminaire Lumens: 4147.0 lumens
Efficiency: N/A
Efficacy: 83.6 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 49.6
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									
RC	80									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	113	110	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92																			
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85																			
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78																			
4	96	88	82	77	94	87	81	77	84	80	76	82	78	75	80	77	74	73																			
5	91	82	76	71	89	81	75	71	79	74	70	77	73	70	76	72	69	67																			
6	86	77	70	66	84	76	70	66	74	69	65	73	68	65	71	67	64	63																			
7	82	72	66	61	80	71	65	61	70	65	61	69	64	60	68	63	60	59																			
8	78	68	61	57	76	67	61	57	66	61	57	65	60	57	64	60	56	55																			
9	74	64	58	54	73	63	58	54	62	57	53	61	57	53	61	56	53	52																			
10	70	60	54	50	69	60	54	50	59	54	50	58	53	50	58	53	50	49																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	264052	264052	264052
5°	274091	257858	252024
10°	267085	241868	231225
15°	250490	221006	211454
20°	219901	196746	192989
25°	177851	161634	168300
30°	123646	112593	134692
35°	76205	68978	101656
40°	43124	38665	67512
45°	20940	19979	46075
50°	7974	7974	39163
55°	4368	5161	36147
60°	3191	4101	29614
65°	2698	3502	24257
70°	2324	2997	19987
75°	2203	3071	17157
80°	1326	2620	12470
85°	1321	5221	11762



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	441.0	10.6
10°-20°	1108.3	26.7
20°-30°	1247.6	30.1
30°-40°	772.5	18.6
40°-50°	307.7	7.4
50°-60°	140.1	3.4
60°-70°	80.5	1.9
70°-80°	38.2	0.9
80°-90°	11.2	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°	2796.8	67.4
0°-40°	3569.4	86.1
0°-60°	4017.1	96.9
0°-90°	4147.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4147.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4817	4817	4817	4817	4817	
5°	4981	4889	4686	4584	4580	469
15°	4414	4222	3894	3736	3726	1221
25°	2940	2861	2672	2739	2782	1322
35°	1139	1132	1031	1436	1519	732
45°	270	270	258	561	594	229
55°	46	44	54	332	378	45
65°	21	19	27	185	187	20
75°	10	10	14	79	81	11
85°	2	2	8	19	19	2
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°	4816.7	4816.7	4816.7	4816.7	4816.7	4816.7	4816.7	4816.7	4816.7
2.5°	4926.8	4881.1	4870.7	4831.2	4764.7	4727.3	4704.5	4687.9	4716.9
5°	4980.8	4931.0	4889.4	4808.4	4685.8	4617.2	4584.0	4556.9	4579.8
7.5°	4941.4	4870.7	4814.6	4702.4	4546.6	4440.6	4394.9	4363.7	4384.5
10°	4798.0	4712.8	4648.4	4515.4	4345.0	4218.2	4162.1	4133.0	4153.8
12.5°	4611.0	4540.3	4442.7	4297.2	4114.3	3981.4	3939.8	3916.9	3925.2
15°	4413.6	4330.4	4222.4	4076.9	3894.1	3761.1	3736.2	3721.6	3725.8
17.5°	4126.8	4045.8	3952.3	3811.0	3642.6	3534.6	3534.6	3524.2	3530.4
20°	3769.4	3725.8	3634.3	3515.9	3372.5	3274.8	3306.0	3295.6	3308.1
22.5°	3382.9	3349.7	3270.7	3173.0	3052.5	2975.6	3044.2	3042.1	3058.7
25°	2940.3	2915.4	2861.3	2778.2	2672.2	2624.5	2738.7	2738.7	2782.4
27.5°	2452.0	2427.0	2389.6	2319.0	2231.7	2217.2	2385.5	2406.3	2454.1
30°	1953.3	1936.6	1915.9	1851.5	1778.7	1805.7	2038.5	2073.8	2127.8
32.5°	1508.6	1498.2	1492.0	1433.8	1369.4	1458.7	1724.7	1770.4	1824.4
35°	1138.7	1115.9	1132.5	1088.8	1030.7	1142.9	1435.9	1475.3	1519.0
37.5°	839.5	822.9	837.4	806.2	754.3	876.9	1153.3	1178.2	1207.3
40°	602.6	588.1	600.5	581.8	540.3	654.6	903.9	930.9	943.4
42.5°	428.1	403.1	415.6	401.0	380.3	492.5	710.7	735.6	739.8
45°	270.1	261.8	270.1	261.8	257.7	365.7	561.0	583.9	594.3
47.5°	164.2	153.8	153.8	149.6	153.8	270.1	463.4	496.6	513.3
50°	93.5	89.4	87.3	85.2	93.5	212.0	401.0	438.4	459.2
52.5°	62.3	60.3	60.3	58.2	68.6	178.7	361.6	394.8	415.6
55°	45.7	43.6	43.6	43.6	54.0	153.8	332.5	359.5	378.2
57.5°	35.3	35.3	35.3	33.2	45.7	130.9	297.1	311.7	326.2
60°	29.1	27.0	27.0	27.0	37.4	112.2	255.6	261.8	270.1
62.5°	22.9	22.9	22.9	22.9	31.2	99.7	220.3	220.3	224.4
65°	20.8	18.7	18.7	18.7	27.0	87.3	184.9	182.9	187.0
67.5°	16.6	16.6	16.6	16.6	22.9	74.8	151.7	149.6	153.8
70°	14.5	14.5	14.5	14.5	18.7	62.3	122.6	120.5	124.7
72.5°	12.5	12.5	12.5	12.5	16.6	51.9	97.7	97.7	99.7
75°	10.4	10.4	10.4	10.4	14.5	39.5	79.0	79.0	81.0
77.5°	8.3	8.3	8.3	8.3	10.4	31.2	60.3	58.2	58.2
80°	4.2	6.2	6.2	6.2	8.3	22.9	43.6	39.5	39.5
82.5°	2.1	4.2	4.2	4.2	8.3	16.6	29.1	27.0	27.0
85°	2.1	2.1	2.1	6.2	8.3	12.5	18.7	18.7	18.7
87.5°	0.0	2.1	4.2	8.3	10.4	10.4	12.5	10.4	10.4
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)