

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: P799753

Luminaire Tested: **LD6C45D010 EU6459040 6LBMDDWWMH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P799753
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: LD6C45D010 EU6459040 6LBMDDWWMH
Description: 6 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 6LBMDDW TRIM WITH WMH FINISH
Light Source: -
Ballast/Driver: -

Summary

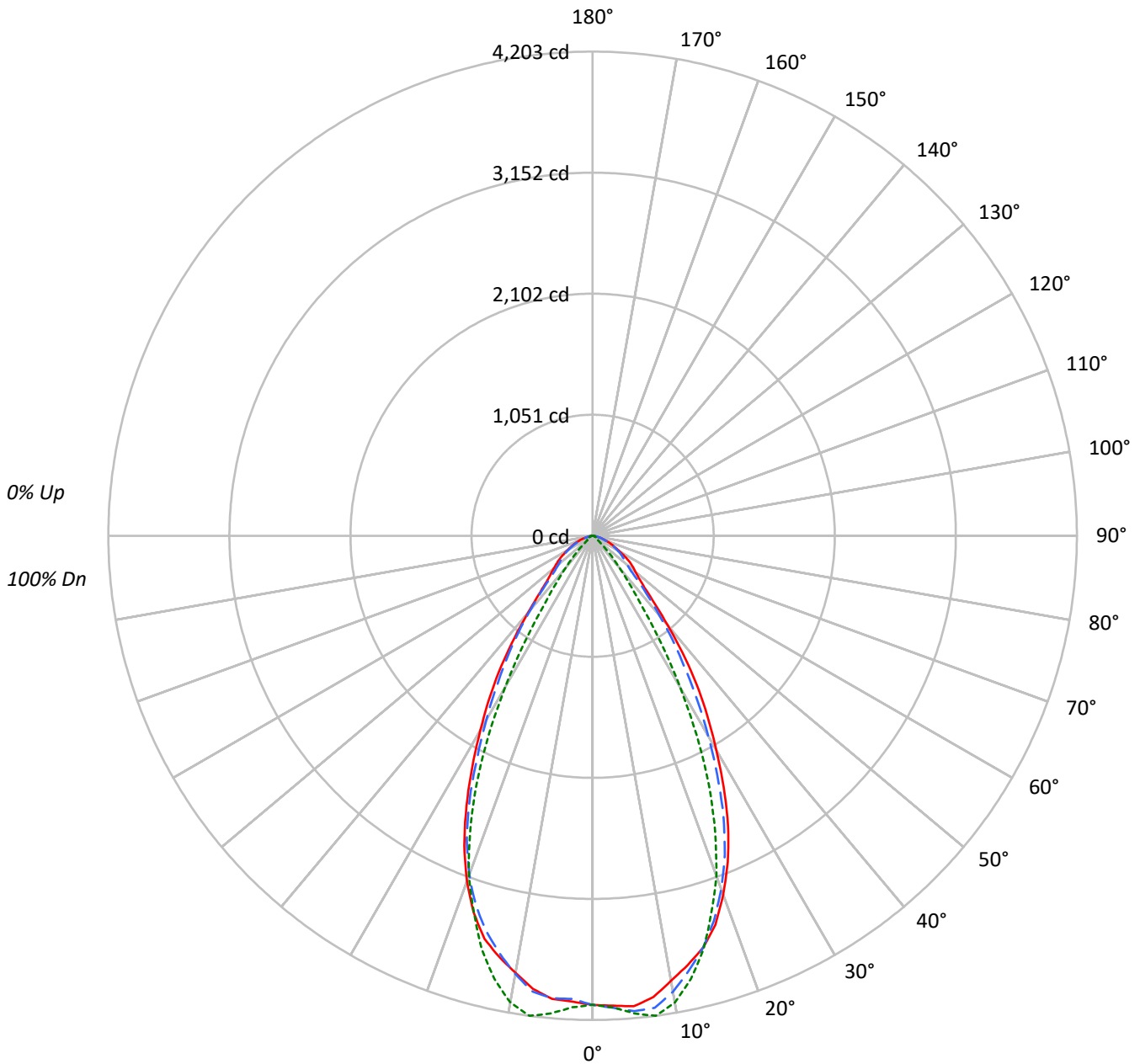
Lumens per Lamp: N/A
Luminaire Lumens: 4146.0 lumens
Efficiency: N/A
Efficacy: 83.6 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.87 / 0.88
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	223255	223255	223255
5°	225588	229006	222055
10°	218283	229004	214475
15°	210086	210909	205620
20°	193351	183200	186100
25°	168276	144468	156747
30°	135711	95983	123127
35°	105216	49490	92468
40°	72192	25648	62260
45°	49462	12846	43679
50°	41159	5475	37449
55°	37026	4750	33461
60°	29296	4539	27936
65°	24179	4034	23920
70°	19587	3654	19587
75°	14488	3940	15356
80°	8492	3283	9155
85°	6542	3900	6542



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	387.7	9.4
10°-20°	1017.5	24.5
20°-30°	1161.4	28.0
30°-40°	770.2	18.6
40°-50°	371.5	9.0
50°-60°	228.5	5.5
60°-70°	138.3	3.3
70°-80°	58.2	1.4
80°-90°	12.8	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°	2566.5	61.9
0°-40°	3336.7	80.5
0°-60°	3936.7	95.0
0°-90°	4146.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4146.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4072	4072	4072	4072	4072	
5°	4099	4143	4162	4029	4035	385
15°	3702	3702	3716	3559	3623	1032
25°	2782	2689	2388	2527	2591	1261
35°	1572	1386	740	1293	1382	972
45°	638	559	166	522	563	520
55°	387	315	50	315	350	341
65°	186	178	31	168	184	187
75°	68	68	19	64	72	73
85°	10	14	6	10	10	13
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°	4072.5	4072.5	4072.5	4072.5	4072.5	4072.5	4072.5	4072.5	4072.5
2.5°	4082.8	4089.0	4101.5	4103.5	4097.3	4058.0	4024.8	4037.3	4047.6
5°	4099.4	4111.8	4142.9	4171.9	4161.5	4095.3	4029.0	4026.9	4035.2
7.5°	4039.3	4068.3	4132.5	4205.0	4203.0	4089.0	3991.7	3966.8	3966.8
10°	3921.3	3948.2	4018.6	4116.0	4113.9	3971.0	3863.3	3850.8	3852.9
12.5°	3815.6	3828.0	3863.3	3939.9	3939.9	3799.0	3716.2	3728.6	3745.2
15°	3701.7	3710.0	3701.7	3726.5	3716.2	3600.2	3558.7	3598.1	3623.0
17.5°	3540.1	3544.2	3500.7	3467.6	3428.2	3355.7	3366.1	3424.1	3430.3
20°	3314.3	3341.2	3262.5	3177.6	3140.3	3072.0	3130.0	3194.2	3190.0
22.5°	3065.7	3096.8	2995.3	2854.5	2777.8	2750.9	2854.5	2912.5	2910.4
25°	2782.0	2804.7	2688.7	2492.0	2388.4	2384.2	2527.2	2587.2	2591.4
27.5°	2463.0	2471.2	2340.7	2083.9	1955.4	1986.5	2166.7	2249.6	2259.9
30°	2143.9	2139.8	2005.2	1686.2	1516.3	1601.2	1843.6	1934.7	1945.1
32.5°	1851.9	1839.4	1686.2	1305.0	1102.0	1228.4	1547.4	1642.7	1659.2
35°	1572.2	1551.5	1385.8	965.3	739.5	928.0	1292.6	1375.4	1381.7
37.5°	1280.2	1269.8	1139.3	722.9	515.8	704.3	1054.4	1114.4	1108.2
40°	1008.8	1008.8	901.1	536.5	358.4	524.1	834.8	888.7	870.0
42.5°	791.3	801.7	710.5	395.6	254.8	389.4	660.8	710.5	689.8
45°	638.0	638.0	559.3	294.1	165.7	290.0	522.0	567.6	563.4
47.5°	540.6	532.4	453.6	215.4	91.1	217.5	439.1	495.1	493.0
50°	482.6	470.2	389.4	169.9	64.2	180.2	385.3	437.1	439.1
52.5°	437.1	418.4	350.1	151.2	55.9	157.4	350.1	391.5	391.5
55°	387.4	377.0	314.9	134.6	49.7	140.9	314.9	352.1	350.1
57.5°	327.3	325.2	281.7	122.2	45.6	124.3	281.7	304.5	296.2
60°	267.2	275.5	244.4	109.8	41.4	111.9	240.3	258.9	254.8
62.5°	223.7	234.1	213.4	97.4	35.2	99.4	203.0	221.6	217.5
65°	186.4	194.7	178.1	82.9	31.1	82.9	167.8	184.4	184.4
67.5°	153.3	159.5	147.1	68.4	26.9	68.4	136.7	151.2	153.3
70°	122.2	126.4	116.0	53.9	22.8	55.9	107.7	122.2	122.2
72.5°	95.3	97.4	91.1	43.5	20.7	43.5	82.9	95.3	95.3
75°	68.4	72.5	68.4	33.1	18.6	33.1	64.2	70.4	72.5
77.5°	39.4	49.7	49.7	26.9	14.5	24.9	45.6	47.6	47.6
80°	26.9	31.1	35.2	18.6	10.4	18.6	29.0	31.1	29.0
82.5°	18.6	20.7	20.7	12.4	8.3	12.4	18.6	20.7	18.6
85°	10.4	14.5	14.5	10.4	6.2	8.3	10.4	12.4	10.4
87.5°	6.2	8.3	10.4	8.3	6.2	6.2	6.2	6.2	4.1
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)