

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: P799806

Luminaire Tested: **LD6C50D010 EU6509035 6LBMDSWWH**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P799806
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: LD6C50D010 EU6509035 6LBMDSWWH
Description: 6 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 6LBMDSW TRIM WITH WH FINISH
Light Source: -
Ballast/Driver: -

Summary

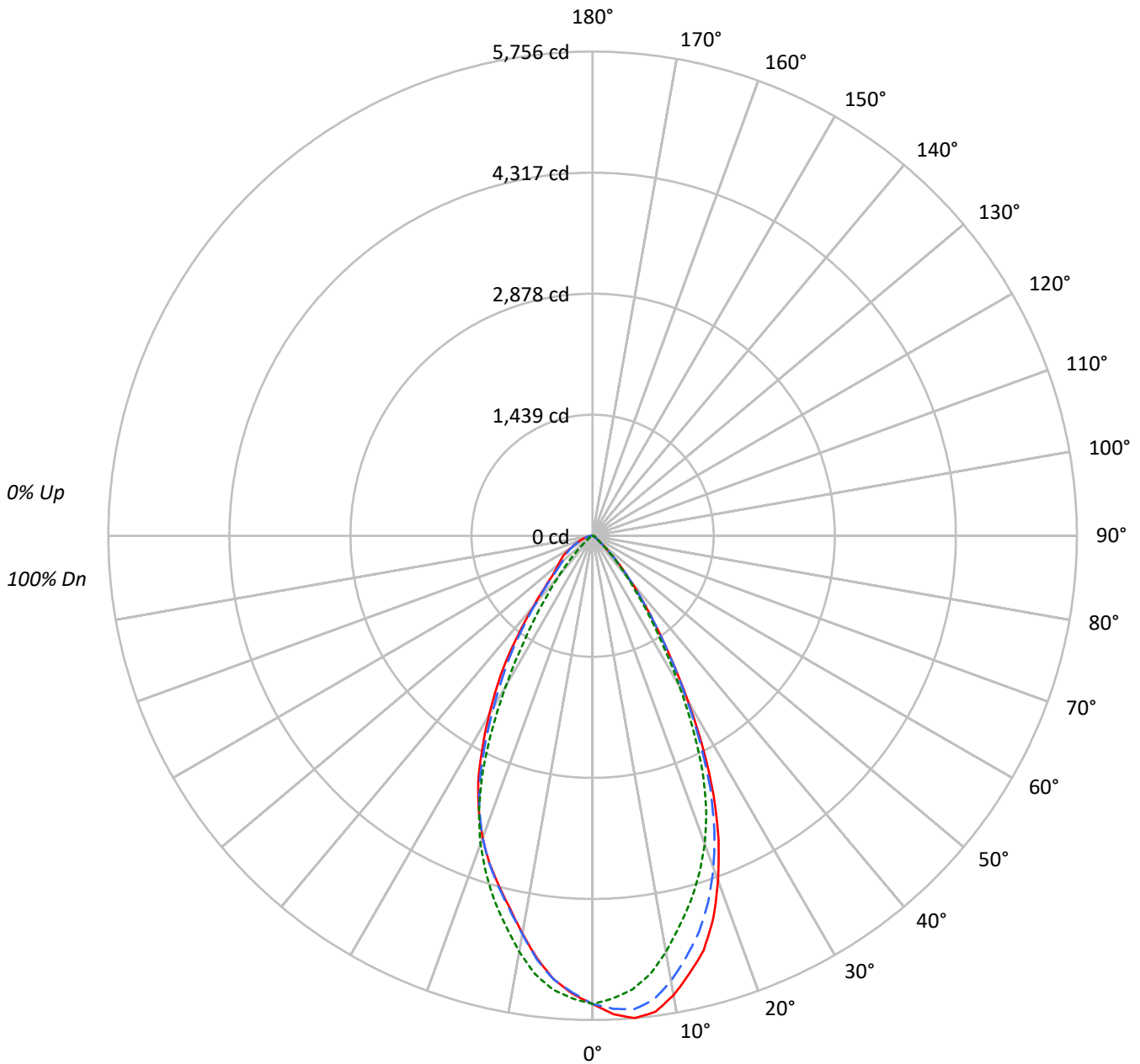
Lumens per Lamp: N/A
Luminaire Lumens: 4792.0 lumens
Efficiency: N/A
Efficacy: 82.1 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 58.4
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°	305118	305118	305118
5°	316723	297963	291222
10°	308623	279487	267191
15°	289445	255376	244337
20°	254105	227351	223004
25°	205512	186779	194473
30°	142876	130109	155644
35°	88057	79705	117463
40°	49829	44677	78010
45°	24196	23080	53238
50°	9219	9219	45261
55°	5046	5964	41767
60°	3684	4736	34219
65°	3113	4047	28032
70°	2693	3462	23097
75°	2542	3558	19825
80°	1515	3031	14396
85°	1510	6038	13586



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	509.5	10.6
10°-20°	1280.7	26.7
20°-30°	1441.7	30.1
30°-40°	892.7	18.6
40°-50°	355.5	7.4
50°-60°	161.8	3.4
60°-70°	93.0	1.9
70°-80°	44.2	0.9
80°-90°	12.9	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°	3231.9	67.4
0°-40°	4124.5	86.1
0°-60°	4641.9	96.9
0°-90°	4792.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4792.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5566	5566	5566	5566	5566	
5°	5756	5650	5415	5297	5292	542
15°	5100	4879	4500	4317	4305	1411
25°	3398	3306	3088	3165	3215	1527
35°	1316	1309	1191	1659	1755	846
45°	312	312	298	648	687	264
55°	53	50	62	384	437	52
65°	24	22	31	214	216	23
75°	12	12	17	91	94	12
85°	2	2	10	22	22	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°	5565.8	5565.8	5565.8	5565.8	5565.8	5565.8	5565.8	5565.8	5565.8
2.5°	5693.1	5640.3	5628.3	5582.7	5505.8	5462.6	5436.2	5417.0	5450.6
5°	5755.5	5697.9	5649.9	5556.2	5414.6	5335.3	5296.9	5265.7	5292.1
7.5°	5709.9	5628.3	5563.4	5433.8	5253.7	5131.2	5078.4	5042.4	5066.4
10°	5544.2	5445.8	5371.4	5217.7	5020.8	4874.3	4809.5	4775.9	4799.9
12.5°	5328.1	5246.5	5133.6	4965.6	4754.3	4600.6	4552.6	4526.2	4535.8
15°	5100.0	5004.0	4879.1	4711.0	4499.7	4346.1	4317.3	4300.4	4305.2
17.5°	4768.7	4675.0	4567.0	4403.7	4209.2	4084.3	4084.3	4072.3	4079.5
20°	4355.7	4305.2	4199.6	4062.7	3897.1	3784.2	3820.2	3808.2	3822.6
22.5°	3909.1	3870.6	3779.4	3666.5	3527.3	3438.4	3517.7	3515.3	3534.5
25°	3397.6	3368.8	3306.4	3210.3	3087.9	3032.6	3164.7	3164.7	3215.1
27.5°	2833.3	2804.5	2761.3	2679.7	2578.8	2562.0	2756.5	2780.5	2835.7
30°	2257.1	2237.9	2213.9	2139.4	2055.4	2086.6	2355.5	2396.3	2458.8
32.5°	1743.2	1731.2	1724.0	1656.8	1582.4	1685.6	1992.9	2045.8	2108.2
35°	1315.8	1289.4	1308.6	1258.2	1191.0	1320.6	1659.2	1704.8	1755.2
37.5°	970.1	950.9	967.7	931.6	871.6	1013.3	1332.6	1361.4	1395.1
40°	696.3	679.5	693.9	672.3	624.3	756.4	1044.5	1075.7	1090.1
42.5°	494.6	465.8	480.2	463.4	439.4	569.1	821.2	850.0	854.8
45°	312.1	302.5	312.1	302.5	297.7	422.6	648.3	674.7	686.7
47.5°	189.7	177.7	177.7	172.9	177.7	312.1	535.5	573.9	593.1
50°	108.1	103.2	100.8	98.4	108.1	244.9	463.4	506.6	530.7
52.5°	72.0	69.6	69.6	67.2	79.2	206.5	417.8	456.2	480.2
55°	52.8	50.4	50.4	50.4	62.4	177.7	384.2	415.4	437.0
57.5°	40.8	40.8	40.8	38.4	52.8	151.3	343.4	360.2	377.0
60°	33.6	31.2	31.2	31.2	43.2	129.7	295.3	302.5	312.1
62.5°	26.4	26.4	26.4	26.4	36.0	115.3	254.5	254.5	259.3
65°	24.0	21.6	21.6	21.6	31.2	100.8	213.7	211.3	216.1
67.5°	19.2	19.2	19.2	19.2	26.4	86.4	175.3	172.9	177.7
70°	16.8	16.8	16.8	16.8	21.6	72.0	141.7	139.3	144.1
72.5°	14.4	14.4	14.4	14.4	19.2	60.0	112.9	112.9	115.3
75°	12.0	12.0	12.0	12.0	16.8	45.6	91.2	91.2	93.6
77.5°	9.6	9.6	9.6	9.6	12.0	36.0	69.6	67.2	67.2
80°	4.8	7.2	7.2	7.2	9.6	26.4	50.4	45.6	45.6
82.5°	2.4	4.8	4.8	4.8	9.6	19.2	33.6	31.2	31.2
85°	2.4	2.4	2.4	7.2	9.6	14.4	21.6	21.6	21.6
87.5°	0.0	2.4	4.8	9.6	12.0	12.0	14.4	12.0	12.0
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)