

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: P799821

Luminaire Tested: **LD6C50D010 EU6509050 6LBMDDWH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P799821
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: LD6C50D010 EU6509050 6LBMDDWH
Description: 6 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 6LBMDDW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

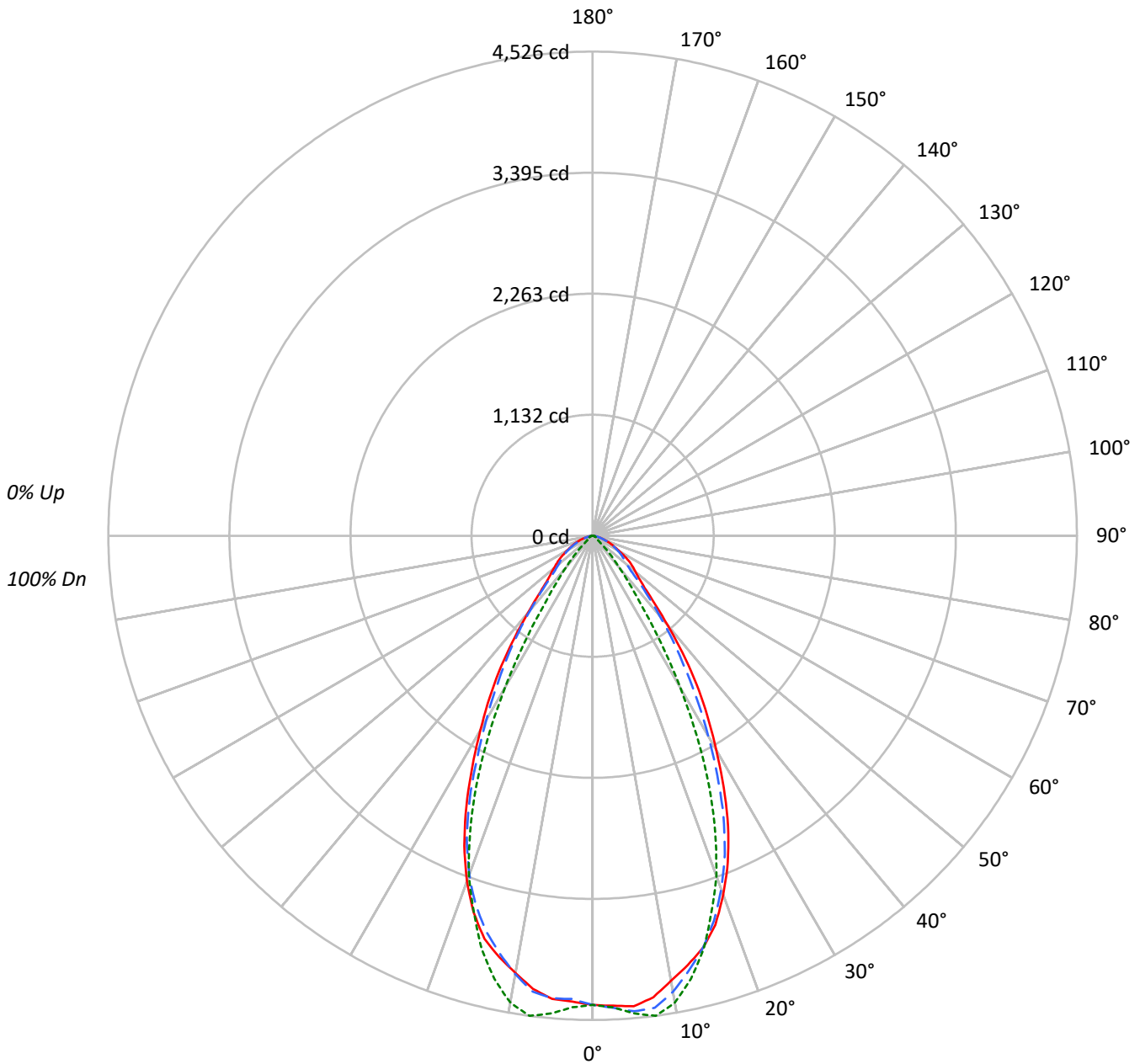
Lumens per Lamp: N/A
Luminaire Lumens: 4465.0 lumens
Efficiency: N/A
Efficacy: 76.5 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.87 / 0.88
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 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	112	109	106	104	110	107	105	102	103	101	99	99	98	96	96	94	93	91				91				
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	83				83				
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76				76				
4	94	85	79	74	92	84	78	74	82	77	73	80	76	72	78	74	71	70				70				
5	89	79	73	68	87	78	72	68	76	71	67	75	70	66	73	69	66	64				64				
6	84	74	67	62	82	73	67	62	71	66	62	70	65	61	69	64	61	59				59				
7	79	69	62	58	78	68	62	58	67	61	57	66	61	57	65	60	57	55				55				
8	75	65	58	54	74	64	58	54	63	57	53	62	57	53	61	56	53	51				51				
9	71	61	55	50	70	60	54	50	59	54	50	58	53	50	58	53	50	48				48				
10	68	57	51	47	67	57	51	47	56	51	47	55	50	47	55	50	47	45				45				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	240430	240430	240430
5°	242945	246626	239142
10°	235077	246622	230974
15°	226250	227135	221437
20°	208227	197295	200422
25°	181220	155580	168808
30°	146155	103370	132596
35°	113314	53298	99582
40°	77746	27616	67047
45°	53269	13839	47044
50°	44331	5902	40331
55°	39874	5113	36032
60°	31554	4890	30085
65°	26047	4345	25749
70°	21093	3927	21093
75°	15589	4257	16542
80°	9155	3536	9850
85°	7045	4214	7045



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	417.5	9.4
10°-20°	1095.8	24.5
20°-30°	1250.7	28.0
30°-40°	829.5	18.6
40°-50°	400.1	9.0
50°-60°	246.1	5.5
60°-70°	148.9	3.3
70°-80°	62.6	1.4
80°-90°	13.8	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°	2764.0	61.9
0°-40°	3593.4	80.5
0°-60°	4239.6	95.0
0°-90°	4465.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4465.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4386	4386	4386	4386	4386	
5°	4415	4462	4482	4339	4346	415
15°	3986	3986	4002	3833	3902	1111
25°	2996	2896	2572	2722	2791	1359
35°	1693	1492	796	1392	1488	1047
45°	687	602	178	562	607	560
55°	417	339	54	339	377	367
65°	201	192	34	181	198	202
75°	74	74	20	69	78	79
85°	11	16	7	11	11	14
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°	4385.8	4385.8	4385.8	4385.8	4385.8	4385.8	4385.8	4385.8	4385.8
2.5°	4397.0	4403.7	4417.0	4419.3	4412.6	4370.2	4334.5	4347.9	4359.0
5°	4414.8	4428.2	4461.7	4492.9	4481.7	4410.3	4339.0	4336.7	4345.7
7.5°	4350.1	4381.3	4450.5	4528.6	4526.4	4403.7	4298.8	4272.0	4272.0
10°	4223.0	4252.0	4327.8	4432.7	4430.4	4276.5	4160.5	4147.1	4149.3
12.5°	4109.2	4122.6	4160.5	4243.0	4243.0	4091.3	4002.1	4015.5	4033.3
15°	3986.5	3995.4	3986.5	4013.3	4002.1	3877.2	3832.6	3874.9	3901.7
17.5°	3812.5	3816.9	3770.1	3734.4	3692.0	3613.9	3625.1	3687.6	3694.3
20°	3569.3	3598.3	3513.6	3422.1	3381.9	3308.3	3370.8	3439.9	3435.5
22.5°	3301.6	3335.1	3225.8	3074.1	2991.5	2962.5	3074.1	3136.5	3134.3
25°	2996.0	3020.5	2895.6	2683.7	2572.1	2567.7	2721.6	2786.3	2790.8
27.5°	2652.5	2661.4	2520.8	2244.2	2105.9	2139.4	2333.4	2422.7	2433.8
30°	2308.9	2304.4	2159.4	1815.9	1633.0	1724.4	1985.4	2083.6	2094.7
32.5°	1994.4	1981.0	1815.9	1405.4	1186.8	1322.9	1666.4	1769.0	1786.9
35°	1693.2	1670.9	1492.4	1039.6	796.4	999.4	1392.0	1481.3	1488.0
37.5°	1378.7	1367.5	1227.0	778.6	555.5	758.5	1135.5	1200.2	1193.5
40°	1086.4	1086.4	970.4	577.8	385.9	564.4	899.0	957.0	936.9
42.5°	852.2	863.3	765.2	426.1	274.4	419.4	711.6	765.2	742.9
45°	687.1	687.1	602.3	316.8	178.5	312.3	562.2	611.2	606.8
47.5°	582.2	573.3	488.6	232.0	98.2	234.2	472.9	533.2	530.9
50°	519.8	506.4	419.4	182.9	69.2	194.1	414.9	470.7	472.9
52.5°	470.7	450.6	377.0	162.9	60.2	169.5	377.0	421.6	421.6
55°	417.2	406.0	339.1	145.0	53.5	151.7	339.1	379.2	377.0
57.5°	352.5	350.2	303.4	131.6	49.1	133.8	303.4	327.9	319.0
60°	287.8	296.7	263.2	118.2	44.6	120.5	258.8	278.9	274.4
62.5°	240.9	252.1	229.8	104.8	37.9	107.1	218.6	238.7	234.2
65°	200.8	209.7	191.9	89.2	33.5	89.2	180.7	198.5	198.5
67.5°	165.1	171.8	158.4	73.6	29.0	73.6	147.2	162.9	165.1
70°	131.6	136.1	124.9	58.0	24.5	60.2	116.0	131.6	131.6
72.5°	102.6	104.8	98.2	46.8	22.3	46.8	89.2	102.6	102.6
75°	73.6	78.1	73.6	35.7	20.1	35.7	69.2	75.8	78.1
77.5°	42.4	53.5	53.5	29.0	15.6	26.8	49.1	51.3	51.3
80°	29.0	33.5	37.9	20.1	11.2	20.1	31.2	33.5	31.2
82.5°	20.1	22.3	22.3	13.4	8.9	13.4	20.1	22.3	20.1
85°	11.2	15.6	15.6	11.2	6.7	8.9	11.2	13.4	11.2
87.5°	6.7	8.9	11.2	8.9	6.7	6.7	6.7	6.7	4.5
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)