

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: P799818

Luminaire Tested: **LD6C50D010 EU6509040 6LBMDSWWH**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P799818
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 EU6509040 6LBMDSWWH
Description: 6 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 6LBMDSW TRIM WITH WH FINISH
Light Source: -
Ballast/Driver: -

Summary

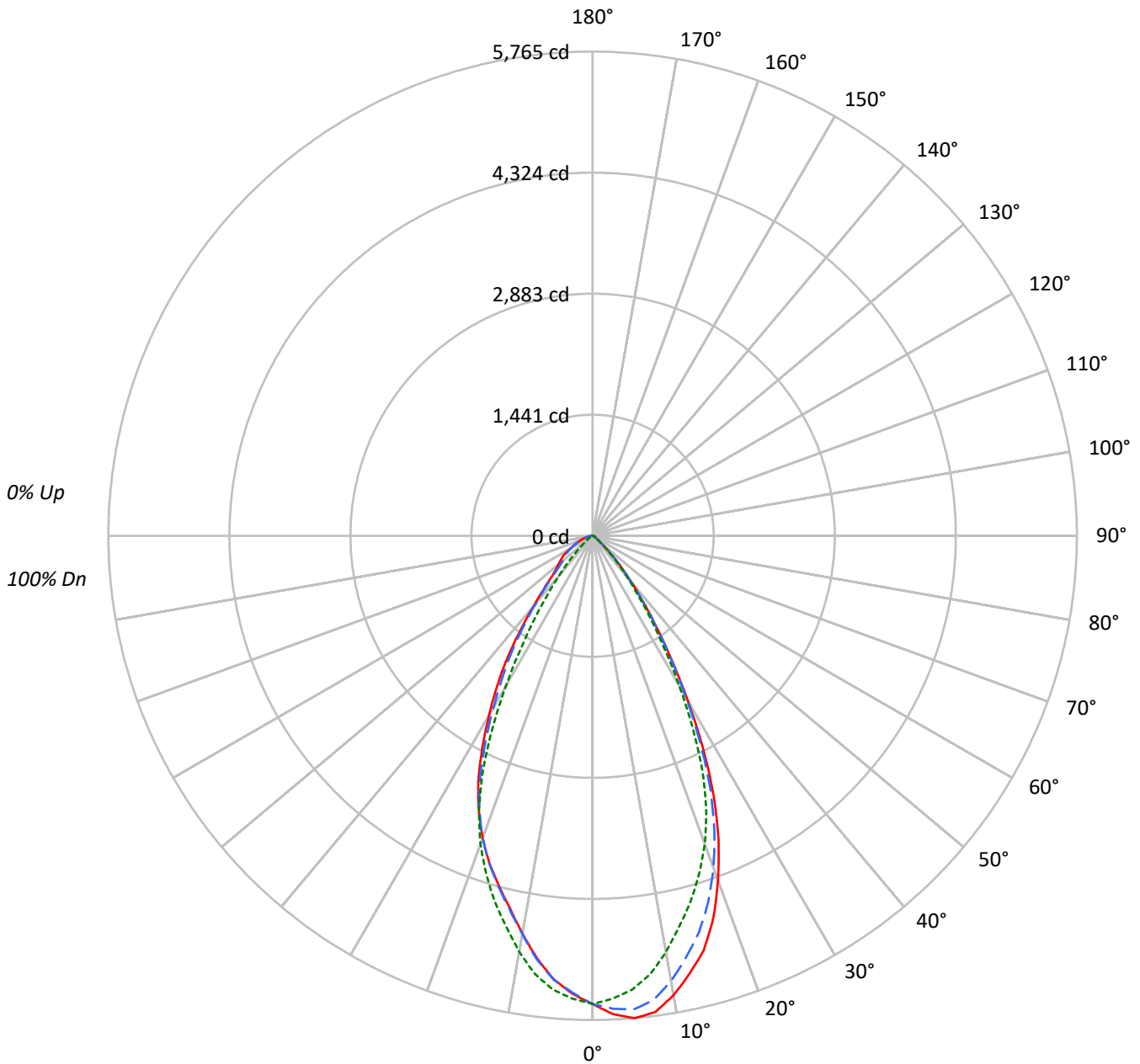
Lumens per Lamp: N/A
Luminaire Lumens: 4800.0 lumens
Efficiency: N/A
Efficacy: 82.2 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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	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°	305628	305628	305628
5°	317251	298458	291712
10°	309140	279955	267636
15°	289928	255807	244746
20°	254525	227730	223378
25°	205857	187087	194800
30°	143111	130324	155904
35°	88205	79839	117664
40°	49915	44748	78139
45°	24243	23119	53331
50°	9228	9228	45329
55°	5056	5974	41834
60°	3695	4747	34285
65°	3126	4060	28083
70°	2693	3462	23129
75°	2542	3558	19868
80°	1515	3031	14427
85°	1510	6038	13586



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	510.4	10.6
10°-20°	1282.8	26.7
20°-30°	1444.1	30.1
30°-40°	894.2	18.6
40°-50°	356.1	7.4
50°-60°	162.1	3.4
60°-70°	93.2	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°	3237.2	67.4
0°-40°	4131.4	86.1
0°-60°	4649.6	96.9
0°-90°	4800.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4800.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5575	5575	5575	5575	5575	
5°	5765	5659	5424	5306	5301	543
15°	5108	4887	4507	4324	4312	1413
25°	3403	3312	3093	3170	3220	1530
35°	1318	1311	1193	1662	1758	847
45°	313	313	298	649	688	265
55°	53	50	62	385	438	53
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°	5575.1	5575.1	5575.1	5575.1	5575.1	5575.1	5575.1	5575.1	5575.1
2.5°	5702.6	5649.7	5637.7	5592.0	5515.0	5471.7	5445.3	5426.0	5459.7
5°	5765.1	5707.4	5659.3	5565.5	5423.6	5344.2	5305.8	5274.5	5301.0
7.5°	5719.4	5637.7	5572.7	5442.9	5262.5	5139.8	5086.9	5050.8	5074.9
10°	5553.5	5454.9	5380.3	5226.4	5029.2	4882.5	4817.5	4783.8	4807.9
12.5°	5337.0	5255.3	5142.2	4973.9	4762.2	4608.3	4560.2	4533.7	4543.3
15°	5108.5	5012.3	4887.3	4718.9	4507.3	4353.3	4324.5	4307.6	4312.4
17.5°	4776.6	4682.8	4574.6	4411.0	4216.2	4091.2	4091.2	4079.1	4086.4
20°	4362.9	4312.4	4206.6	4069.5	3903.6	3790.5	3826.6	3814.6	3829.0
22.5°	3915.6	3877.1	3785.7	3672.7	3533.2	3444.2	3523.5	3521.1	3540.4
25°	3403.3	3374.4	3311.9	3215.7	3093.0	3037.7	3170.0	3170.0	3220.5
27.5°	2838.1	2809.2	2765.9	2684.1	2583.1	2566.3	2761.1	2785.2	2840.5
30°	2260.8	2241.6	2217.5	2143.0	2058.8	2090.1	2359.5	2400.3	2462.9
32.5°	1746.1	1734.1	1726.9	1659.6	1585.0	1688.4	1996.3	2049.2	2111.7
35°	1318.0	1291.6	1310.8	1260.3	1193.0	1322.8	1662.0	1707.7	1758.2
37.5°	971.7	952.4	969.3	933.2	873.1	1015.0	1334.9	1363.7	1397.4
40°	697.5	680.7	695.1	673.4	625.3	757.6	1046.2	1077.5	1091.9
42.5°	495.5	466.6	481.0	464.2	440.1	570.0	822.6	851.4	856.2
45°	312.7	303.0	312.7	303.0	298.2	423.3	649.4	675.8	687.9
47.5°	190.0	178.0	178.0	173.2	178.0	312.7	536.3	574.8	594.1
50°	108.2	103.4	101.0	98.6	108.2	245.3	464.2	507.5	531.5
52.5°	72.2	69.7	69.7	67.3	79.4	206.8	418.5	457.0	481.0
55°	52.9	50.5	50.5	50.5	62.5	178.0	384.8	416.1	437.7
57.5°	40.9	40.9	40.9	38.5	52.9	151.5	343.9	360.8	377.6
60°	33.7	31.3	31.3	31.3	43.3	129.9	295.8	303.0	312.7
62.5°	26.5	26.5	26.5	26.5	36.1	115.4	254.9	254.9	259.8
65°	24.1	21.6	21.6	21.6	31.3	101.0	214.1	211.7	216.5
67.5°	19.2	19.2	19.2	19.2	26.5	86.6	175.6	173.2	178.0
70°	16.8	16.8	16.8	16.8	21.6	72.2	141.9	139.5	144.3
72.5°	14.4	14.4	14.4	14.4	19.2	60.1	113.0	113.0	115.4
75°	12.0	12.0	12.0	12.0	16.8	45.7	91.4	91.4	93.8
77.5°	9.6	9.6	9.6	9.6	12.0	36.1	69.7	67.3	67.3
80°	4.8	7.2	7.2	7.2	9.6	26.5	50.5	45.7	45.7
82.5°	2.4	4.8	4.8	4.8	9.6	19.2	33.7	31.3	31.3
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)