

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: P799813

Luminaire Tested: **LD6C50D010 EU6509040 6LBMDDWWMH**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P799813
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 EU6509040 6LBMDDWWMH
Description: 6 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 6LBMDDW TRIM WITH WMH FINISH
Light Source: -
Ballast/Driver: -

Summary

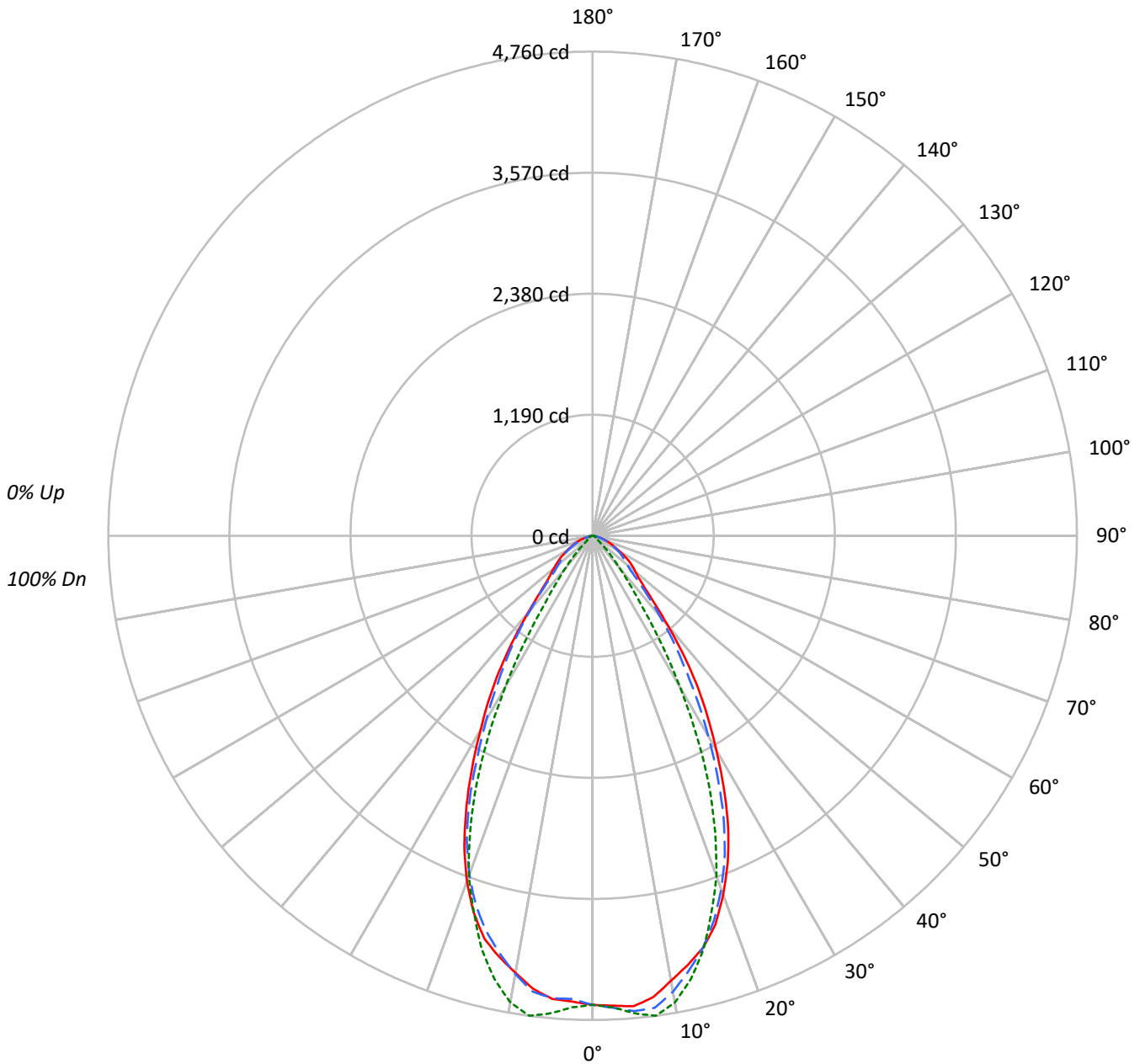
Lumens per Lamp: N/A
Luminaire Lumens: 4695.0 lumens
Efficiency: N/A
Efficacy: 80.4 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.87 / 0.88
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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									
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°	252814	252814	252814
5°	255458	259332	251458
10°	247184	259325	242876
15°	237901	238838	232845
20°	218956	207457	210742
25°	190553	163594	177500
30°	153682	108694	139433
35°	119150	56041	104708
40°	81753	29040	70504
45°	56014	14552	49462
50°	46617	6200	42412
55°	41929	5381	37886
60°	33177	5142	31631
65°	27383	4566	27085
70°	22183	4135	22183
75°	16394	4469	17390
80°	9629	3694	10355
85°	7359	4403	7359



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	439.0	9.4
10°-20°	1152.2	24.5
20°-30°	1315.2	28.0
30°-40°	872.2	18.6
40°-50°	420.7	9.0
50°-60°	258.8	5.5
60°-70°	156.6	3.3
70°-80°	65.9	1.4
80°-90°	14.5	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°	2906.4	61.9
0°-40°	3778.6	80.5
0°-60°	4458.0	95.0
0°-90°	4695.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4695.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4612	4612	4612	4612	4612	
5°	4642	4692	4713	4562	4570	436
15°	4192	4192	4208	4030	4103	1168
25°	3150	3045	2705	2862	2934	1428
35°	1780	1569	837	1464	1565	1101
45°	722	633	188	591	638	589
55°	439	357	56	357	396	386
65°	211	202	35	190	209	212
75°	77	77	21	73	82	83
85°	12	16	7	12	12	15
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°	4611.7	4611.7	4611.7	4611.7	4611.7	4611.7	4611.7	4611.7	4611.7
2.5°	4623.5	4630.5	4644.6	4646.9	4639.9	4595.3	4557.8	4571.9	4583.6
5°	4642.2	4656.3	4691.5	4724.3	4712.6	4637.5	4562.5	4560.1	4569.5
7.5°	4574.2	4607.0	4679.8	4761.9	4759.5	4630.5	4520.2	4492.1	4492.1
10°	4440.5	4471.0	4550.7	4661.0	4658.6	4496.8	4374.8	4360.7	4363.1
12.5°	4320.9	4334.9	4374.8	4461.6	4461.6	4302.1	4208.3	4222.3	4241.1
15°	4191.8	4201.2	4191.8	4220.0	4208.3	4076.9	4030.0	4074.6	4102.7
17.5°	4008.9	4013.6	3964.3	3926.8	3882.2	3800.1	3811.8	3877.5	3884.5
20°	3753.2	3783.7	3694.5	3598.4	3556.1	3478.7	3544.4	3617.1	3612.4
22.5°	3471.7	3506.9	3391.9	3232.4	3145.6	3115.1	3232.4	3298.1	3295.8
25°	3150.3	3176.1	3044.8	2821.9	2704.6	2699.9	2861.8	2929.8	2934.5
27.5°	2789.1	2798.5	2650.7	2359.8	2214.4	2249.6	2453.6	2547.5	2559.2
30°	2427.8	2423.2	2270.7	1909.4	1717.1	1813.3	2087.7	2190.9	2202.7
32.5°	2097.1	2083.0	1909.4	1477.8	1247.9	1391.0	1752.3	1860.2	1878.9
35°	1780.4	1757.0	1569.3	1093.1	837.4	1050.9	1463.7	1557.6	1564.6
37.5°	1449.7	1437.9	1290.2	818.7	584.1	797.6	1194.0	1262.0	1255.0
40°	1142.4	1142.4	1020.4	607.5	405.8	593.5	945.3	1006.3	985.2
42.5°	896.1	907.8	804.6	448.0	288.5	441.0	748.3	804.6	781.1
45°	722.5	722.5	633.4	333.1	187.7	328.4	591.1	642.7	638.0
47.5°	612.2	602.9	513.7	244.0	103.2	246.3	497.3	560.6	558.3
50°	546.6	532.5	441.0	192.4	72.7	204.1	436.3	495.0	497.3
52.5°	495.0	473.8	396.4	171.2	63.3	178.3	396.4	443.3	443.3
55°	438.7	426.9	356.6	152.5	56.3	159.5	356.6	398.8	396.4
57.5°	370.6	368.3	319.0	138.4	51.6	140.7	319.0	344.8	335.4
60°	302.6	312.0	276.8	124.3	46.9	126.7	272.1	293.2	288.5
62.5°	253.3	265.1	241.6	110.2	39.9	112.6	229.9	251.0	246.3
65°	211.1	220.5	201.7	93.8	35.2	93.8	190.0	208.8	208.8
67.5°	173.6	180.6	166.5	77.4	30.5	77.4	154.8	171.2	173.6
70°	138.4	143.1	131.4	61.0	25.8	63.3	122.0	138.4	138.4
72.5°	107.9	110.2	103.2	49.3	23.5	49.3	93.8	107.9	107.9
75°	77.4	82.1	77.4	37.5	21.1	37.5	72.7	79.8	82.1
77.5°	44.6	56.3	56.3	30.5	16.4	28.1	51.6	54.0	54.0
80°	30.5	35.2	39.9	21.1	11.7	21.1	32.8	35.2	32.8
82.5°	21.1	23.5	23.5	14.1	9.4	14.1	21.1	23.5	21.1
85°	11.7	16.4	16.4	11.7	7.0	9.4	11.7	14.1	11.7
87.5°	7.0	9.4	11.7	9.4	7.0	7.0	7.0	7.0	4.7
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)