

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: P799693

Luminaire Tested: **LD6C40D010 EU6409040 6LBMDDWWMH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P799693
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: LD6C40D010 EU6409040 6LBMDDWWMH
Description: 6 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 6LBMDDW TRIM WITH WMH FINISH
Light Source: -
Ballast/Driver: -

Summary

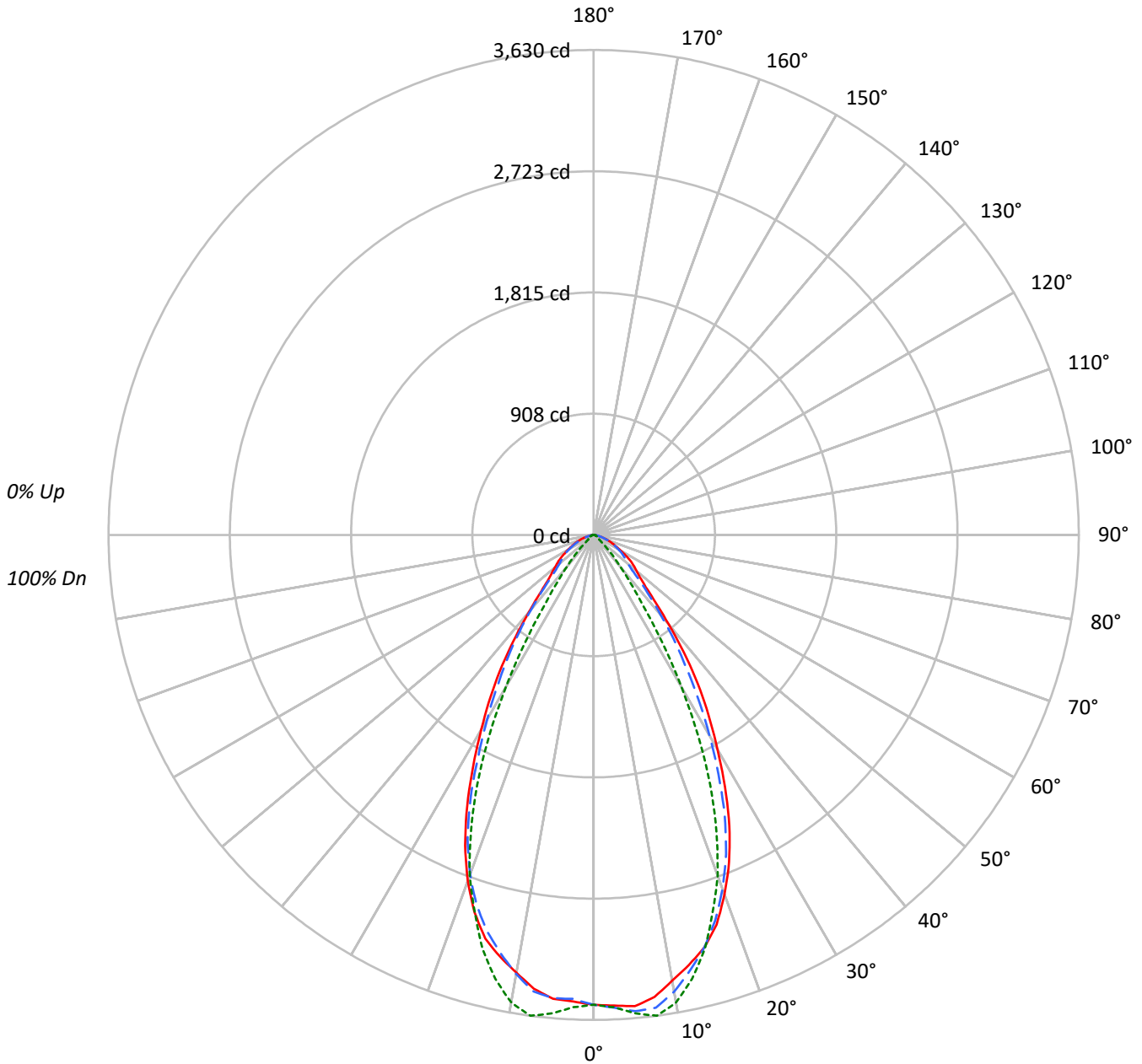
Lumens per Lamp: N/A
Luminaire Lumens: 3581.0 lumens
Efficiency: N/A
Efficacy: 76.2 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.87 / 0.88
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 47
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			
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°	192830	192830	192830
5°	194843	197798	191795
10°	188535	197797	185245
15°	181454	182169	177595
20°	167005	158237	160740
25°	145339	124779	135383
30°	117221	82905	106345
35°	90882	42744	79866
40°	62353	22149	53772
45°	42725	11094	37733
50°	35555	4733	32349
55°	31980	4100	28902
60°	25305	3925	24132
65°	20884	3476	20651
70°	16926	3158	16926
75°	12497	3410	13259
80°	7356	2810	7892
85°	5598	3397	5598



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	334.8	9.4
10°-20°	878.8	24.5
20°-30°	1003.1	28.0
30°-40°	665.2	18.6
40°-50°	320.9	9.0
50°-60°	197.4	5.5
60°-70°	119.4	3.3
70°-80°	50.2	1.4
80°-90°	11.1	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°	2216.8	61.9
0°-40°	2882.0	80.5
0°-60°	3400.3	95.0
0°-90°	3581.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3581.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3518	3518	3518	3518	3518	
5°	3541	3578	3594	3480	3485	333
15°	3197	3197	3210	3074	3129	891
25°	2403	2322	2063	2183	2238	1090
35°	1358	1197	639	1116	1193	840
45°	551	483	143	451	487	449
55°	335	272	43	272	302	294
65°	161	154	27	145	159	162
75°	59	59	16	56	63	63
85°	9	12	5	9	9	11
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°	3517.5	3517.5	3517.5	3517.5	3517.5	3517.5	3517.5	3517.5	3517.5
2.5°	3526.4	3531.8	3542.5	3544.3	3539.0	3505.0	3476.3	3487.1	3496.0
5°	3540.7	3551.5	3578.3	3603.4	3594.4	3537.2	3479.9	3478.1	3485.3
7.5°	3488.9	3513.9	3569.4	3632.0	3630.2	3531.8	3447.7	3426.2	3426.2
10°	3386.9	3410.1	3471.0	3555.1	3553.3	3429.8	3336.8	3326.0	3327.8
12.5°	3295.6	3306.4	3336.8	3403.0	3403.0	3281.3	3209.8	3220.5	3234.8
15°	3197.2	3204.4	3197.2	3218.7	3209.8	3109.6	3073.8	3107.8	3129.2
17.5°	3057.7	3061.3	3023.7	2995.1	2961.1	2898.4	2907.4	2957.5	2962.8
20°	2862.7	2885.9	2817.9	2744.6	2712.4	2653.3	2703.4	2758.9	2755.3
22.5°	2648.0	2674.8	2587.1	2465.5	2399.3	2376.0	2465.5	2515.6	2513.8
25°	2402.8	2422.5	2322.3	2152.4	2062.9	2059.3	2182.8	2234.7	2238.2
27.5°	2127.3	2134.5	2021.8	1799.9	1689.0	1715.8	1871.5	1943.0	1952.0
30°	1851.8	1848.2	1731.9	1456.4	1309.7	1383.0	1592.4	1671.1	1680.0
32.5°	1599.5	1588.8	1456.4	1127.2	951.8	1061.0	1336.5	1418.8	1433.1
35°	1358.0	1340.1	1196.9	833.7	638.7	801.5	1116.4	1188.0	1193.4
37.5°	1105.7	1096.8	984.0	624.4	445.5	608.3	910.7	962.6	957.2
40°	871.3	871.3	778.3	463.4	309.5	452.7	721.0	767.5	751.4
42.5°	683.5	692.4	613.7	341.7	220.1	336.4	570.7	613.7	595.8
45°	551.1	551.1	483.1	254.1	143.1	250.5	450.9	490.2	486.7
47.5°	467.0	459.8	391.8	186.1	78.7	187.9	379.3	427.6	425.8
50°	416.9	406.1	336.4	146.7	55.5	155.7	332.8	377.5	379.3
52.5°	377.5	361.4	302.4	130.6	48.3	136.0	302.4	338.2	338.2
55°	334.6	325.6	272.0	116.3	42.9	121.7	272.0	304.2	302.4
57.5°	282.7	280.9	243.3	105.6	39.4	107.3	243.3	263.0	255.8
60°	230.8	238.0	211.1	94.8	35.8	96.6	207.5	223.6	220.1
62.5°	193.2	202.2	184.3	84.1	30.4	85.9	175.3	191.4	187.9
65°	161.0	168.2	153.9	71.6	26.8	71.6	144.9	159.2	159.2
67.5°	132.4	137.8	127.0	59.0	23.3	59.0	118.1	130.6	132.4
70°	105.6	109.1	100.2	46.5	19.7	48.3	93.0	105.6	105.6
72.5°	82.3	84.1	78.7	37.6	17.9	37.6	71.6	82.3	82.3
75°	59.0	62.6	59.0	28.6	16.1	28.6	55.5	60.8	62.6
77.5°	34.0	42.9	42.9	23.3	12.5	21.5	39.4	41.2	41.2
80°	23.3	26.8	30.4	16.1	8.9	16.1	25.0	26.8	25.0
82.5°	16.1	17.9	17.9	10.7	7.2	10.7	16.1	17.9	16.1
85°	8.9	12.5	12.5	8.9	5.4	7.2	8.9	10.7	8.9
87.5°	5.4	7.2	8.9	7.2	5.4	5.4	5.4	5.4	3.6
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)