

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: P799691

Luminaire Tested: **LD6C40D010 EU6409040 6LBMDDWMW**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P799691
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 6LBMDDWMW
Description: 6 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 6LBMDDW TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Summary

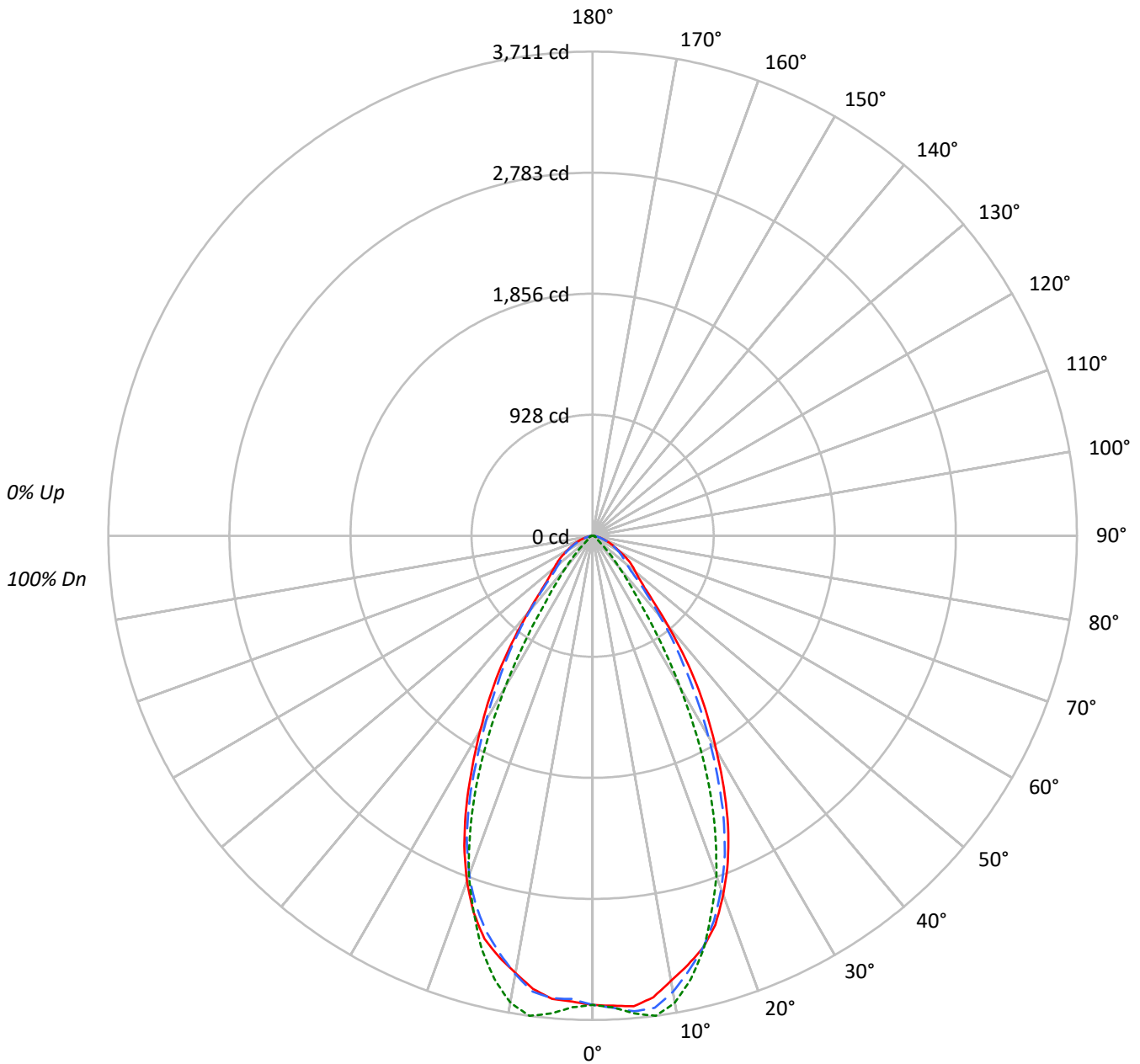
Lumens per Lamp: N/A
Luminaire Lumens: 3661.0 lumens
Efficiency: N/A
Efficacy: 77.9 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.87 / 0.88
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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°	197139	197139	197139
5°	199196	202217	196076
10°	192743	202217	189386
15°	185512	186238	181562
20°	170733	161772	164333
25°	148587	127568	138407
30°	119835	84754	108726
35°	92909	43701	81646
40°	63748	22642	54974
45°	43679	11342	38570
50°	36348	4836	33074
55°	32687	4196	29543
60°	25875	4013	24669
65°	21351	3554	21118
70°	17295	3222	17295
75°	12793	3495	13556
80°	7514	2873	8082
85°	5724	3459	5724



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	342.3	9.4
10°-20°	898.5	24.5
20°-30°	1025.5	28.0
30°-40°	680.1	18.6
40°-50°	328.0	9.0
50°-60°	201.8	5.5
60°-70°	122.1	3.3
70°-80°	51.4	1.4
80°-90°	11.3	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°	2266.3	61.9
0°-40°	2946.4	80.5
0°-60°	3476.2	95.0
0°-90°	3661.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3661.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3596	3596	3596	3596	3596	
5°	3620	3658	3675	3558	3563	340
15°	3269	3269	3282	3142	3199	911
25°	2456	2374	2109	2232	2288	1114
35°	1388	1224	653	1141	1220	859
45°	563	494	146	461	498	459
55°	342	278	44	278	309	301
65°	165	157	27	148	163	165
75°	60	60	16	57	64	64
85°	9	13	6	9	9	12
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°	3596.1	3596.1	3596.1	3596.1	3596.1	3596.1	3596.1	3596.1	3596.1
2.5°	3605.2	3610.7	3621.7	3623.5	3618.0	3583.3	3554.0	3565.0	3574.1
5°	3619.8	3630.8	3658.3	3683.9	3674.7	3616.2	3557.7	3555.8	3563.1
7.5°	3566.8	3592.4	3649.1	3713.1	3711.3	3610.7	3524.7	3502.8	3502.8
10°	3462.5	3486.3	3548.5	3634.5	3632.7	3506.4	3411.3	3400.4	3402.2
12.5°	3369.3	3380.2	3411.3	3479.0	3479.0	3354.6	3281.5	3292.4	3307.1
15°	3268.7	3276.0	3268.7	3290.6	3281.5	3179.0	3142.4	3177.2	3199.1
17.5°	3126.0	3129.6	3091.2	3062.0	3027.2	2963.2	2972.3	3023.6	3029.0
20°	2926.6	2950.4	2880.9	2805.9	2773.0	2712.6	2763.8	2820.5	2816.9
22.5°	2707.1	2734.5	2644.9	2520.5	2452.9	2429.1	2520.5	2571.8	2569.9
25°	2456.5	2476.6	2374.2	2200.4	2109.0	2105.3	2231.5	2284.6	2288.2
27.5°	2174.8	2182.2	2066.9	1840.1	1726.7	1754.1	1913.3	1986.4	1995.6
30°	1893.1	1889.5	1770.6	1488.9	1338.9	1413.9	1627.9	1708.4	1717.6
32.5°	1635.2	1624.3	1488.9	1152.4	973.1	1084.7	1366.4	1450.5	1465.1
35°	1388.3	1370.0	1223.7	852.4	653.0	819.4	1141.4	1214.5	1220.0
37.5°	1130.4	1121.3	1006.0	638.4	455.5	621.9	931.0	984.1	978.6
40°	890.8	890.8	795.7	473.7	316.4	462.8	737.1	784.7	768.2
42.5°	698.7	707.9	627.4	349.4	225.0	343.9	583.5	627.4	609.1
45°	563.4	563.4	493.9	259.7	146.3	256.1	460.9	501.2	497.5
47.5°	477.4	470.1	400.6	190.2	80.5	192.1	387.8	437.2	435.3
50°	426.2	415.2	343.9	150.0	56.7	159.1	340.2	385.9	387.8
52.5°	385.9	369.5	309.1	133.5	49.4	139.0	309.1	345.7	345.7
55°	342.0	332.9	278.0	118.9	43.9	124.4	278.0	311.0	309.1
57.5°	289.0	287.2	248.8	107.9	40.2	109.7	248.8	268.9	261.6
60°	236.0	243.3	215.8	96.9	36.6	98.8	212.2	228.6	225.0
62.5°	197.5	206.7	188.4	86.0	31.1	87.8	179.3	195.7	192.1
65°	164.6	171.9	157.3	73.2	27.4	73.2	148.2	162.8	162.8
67.5°	135.4	140.8	129.9	60.4	23.8	60.4	120.7	133.5	135.4
70°	107.9	111.6	102.4	47.6	20.1	49.4	95.1	107.9	107.9
72.5°	84.1	86.0	80.5	38.4	18.3	38.4	73.2	84.1	84.1
75°	60.4	64.0	60.4	29.3	16.5	29.3	56.7	62.2	64.0
77.5°	34.8	43.9	43.9	23.8	12.8	21.9	40.2	42.1	42.1
80°	23.8	27.4	31.1	16.5	9.1	16.5	25.6	27.4	25.6
82.5°	16.5	18.3	18.3	11.0	7.3	11.0	16.5	18.3	16.5
85°	9.1	12.8	12.8	9.1	5.5	7.3	9.1	11.0	9.1
87.5°	5.5	7.3	9.1	7.3	5.5	5.5	5.5	5.5	3.7
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)