

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: P799668

Luminaire Tested: **LD6C40D010 EU6409030 6LBMDDWWH**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P799668
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 EU6409030 6LBMDDWWH
Description: 6 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 6LBMDDW TRIM WITH WH FINISH
Light Source: -
Ballast/Driver: -

Summary

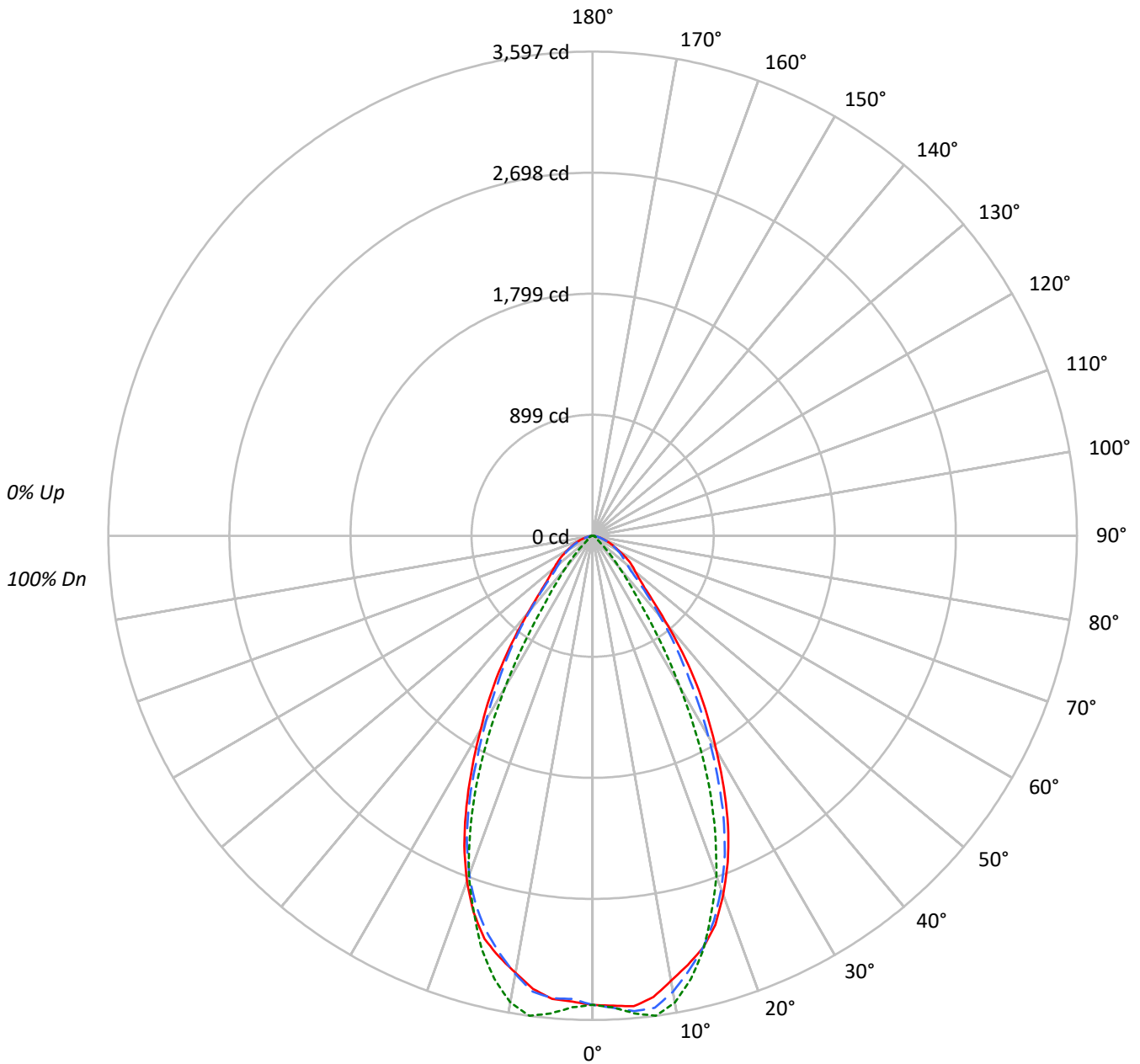
Lumens per Lamp: N/A
Luminaire Lumens: 3548.0 lumens
Efficiency: N/A
Efficacy: 75.5 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.87 / 0.88
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 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									
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°	191054	191054	191054
5°	193049	195977	190028
10°	186798	195972	183541
15°	179785	180489	175960
20°	165465	156779	159258
25°	144002	123630	134137
30°	116138	82139	105364
35°	90045	42349	79130
40°	61780	21948	53278
45°	42330	10993	37384
50°	35223	4691	32050
55°	31683	4062	28635
60°	25075	3892	23902
65°	20690	3450	20469
70°	16766	3126	16766
75°	12391	3389	13132
80°	7261	2810	7829
85°	5598	3334	5598



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	331.7	9.4
10°-20°	870.7	24.5
20°-30°	993.9	28.0
30°-40°	659.1	18.6
40°-50°	317.9	9.0
50°-60°	195.6	5.5
60°-70°	118.3	3.3
70°-80°	49.8	1.4
80°-90°	11.0	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°	2196.3	61.9
0°-40°	2855.4	80.5
0°-60°	3368.9	95.0
0°-90°	3548.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3548.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3485	3485	3485	3485	3485	
5°	3508	3545	3561	3448	3453	330
15°	3168	3168	3180	3045	3100	883
25°	2381	2301	2044	2163	2218	1080
35°	1346	1186	633	1106	1182	832
45°	546	479	142	447	482	445
55°	332	269	42	269	300	291
65°	160	152	27	144	158	160
75°	58	58	16	55	62	62
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°	3485.1	3485.1	3485.1	3485.1	3485.1	3485.1	3485.1	3485.1	3485.1
2.5°	3493.9	3499.3	3509.9	3511.7	3506.3	3472.7	3444.3	3454.9	3463.8
5°	3508.1	3518.8	3545.3	3570.2	3561.3	3504.6	3447.8	3446.1	3453.2
7.5°	3456.7	3481.5	3536.5	3598.5	3596.8	3499.3	3415.9	3394.7	3394.7
10°	3355.7	3378.7	3439.0	3522.3	3520.5	3398.2	3306.0	3295.4	3297.2
12.5°	3265.3	3275.9	3306.0	3371.6	3371.6	3251.1	3180.2	3190.8	3205.0
15°	3167.8	3174.9	3167.8	3189.0	3180.2	3080.9	3045.4	3079.1	3100.4
17.5°	3029.5	3033.0	2995.8	2967.5	2933.8	2871.7	2880.6	2930.2	2935.5
20°	2836.3	2859.3	2792.0	2719.3	2687.4	2628.9	2678.5	2733.5	2729.9
22.5°	2623.6	2650.1	2563.3	2442.7	2377.2	2354.1	2442.7	2492.4	2490.6
25°	2380.7	2400.2	2300.9	2132.5	2043.9	2040.3	2162.7	2214.1	2217.6
27.5°	2107.7	2114.8	2003.1	1783.3	1673.4	1700.0	1854.2	1925.1	1934.0
30°	1834.7	1831.2	1715.9	1443.0	1297.6	1370.3	1577.7	1655.7	1664.5
32.5°	1584.8	1574.1	1443.0	1116.8	943.1	1051.2	1324.2	1405.7	1419.9
35°	1345.5	1327.7	1185.9	826.1	632.8	794.2	1106.1	1177.1	1182.4
37.5°	1095.5	1086.6	975.0	618.7	441.4	602.7	902.3	953.7	948.4
40°	863.3	863.3	771.1	459.1	306.7	448.5	714.4	760.5	744.5
42.5°	677.2	686.0	608.0	338.6	218.0	333.3	565.5	608.0	590.3
45°	546.0	546.0	478.6	251.7	141.8	248.2	446.7	485.7	482.2
47.5°	462.7	455.6	388.2	184.4	78.0	186.1	375.8	423.7	421.9
50°	413.0	402.4	333.3	145.4	55.0	154.2	329.7	374.0	375.8
52.5°	374.0	358.1	299.6	129.4	47.9	134.7	299.6	335.0	335.0
55°	331.5	322.6	269.4	115.2	42.5	120.5	269.4	301.4	299.6
57.5°	280.1	278.3	241.1	104.6	39.0	106.4	241.1	260.6	253.5
60°	228.7	235.8	209.2	94.0	35.5	95.7	205.6	221.6	218.0
62.5°	191.4	200.3	182.6	83.3	30.1	85.1	173.7	189.7	186.1
65°	159.5	166.6	152.4	70.9	26.6	70.9	143.6	157.8	157.8
67.5°	131.2	136.5	125.9	58.5	23.0	58.5	117.0	129.4	131.2
70°	104.6	108.1	99.3	46.1	19.5	47.9	92.2	104.6	104.6
72.5°	81.5	83.3	78.0	37.2	17.7	37.2	70.9	81.5	81.5
75°	58.5	62.0	58.5	28.4	16.0	28.4	55.0	60.3	62.0
77.5°	33.7	42.5	42.5	23.0	12.4	21.3	39.0	40.8	40.8
80°	23.0	26.6	30.1	16.0	8.9	16.0	24.8	26.6	24.8
82.5°	16.0	17.7	17.7	10.6	7.1	10.6	16.0	17.7	16.0
85°	8.9	12.4	12.4	8.9	5.3	7.1	8.9	10.6	8.9
87.5°	5.3	7.1	8.9	7.1	5.3	5.3	5.3	5.3	3.5
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)