

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: P799704

Luminaire Tested: **LD6C40D010 EU6409050 6LBMDDWWH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P799704
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 EU6409050 6LBMDDWWH
Description: 6 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 6LBMDDW TRIM WITH WH FINISH
Light Source: -
Ballast/Driver: -

Summary

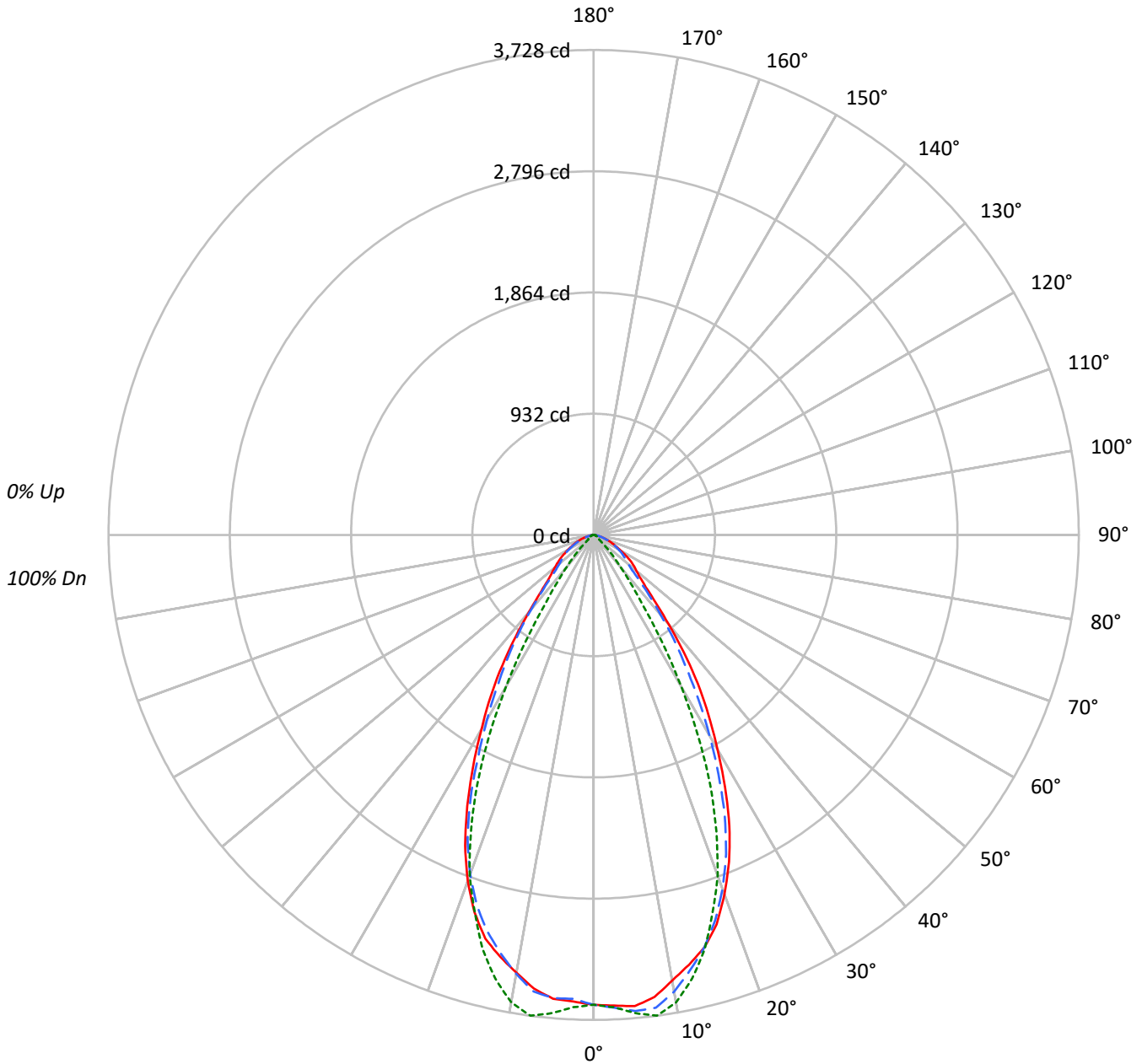
Lumens per Lamp: N/A
Luminaire Lumens: 3677.0 lumens
Efficiency: N/A
Efficacy: 78.2 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.87 / 0.88
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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°	197999	197999	197999
5°	200071	203103	196934
10°	193589	203097	190210
15°	186318	187050	182356
20°	171480	162478	165051
25°	149240	128124	139012
30°	120360	85127	109200
35°	93318	43895	82008
40°	64027	22743	55218
45°	43865	11397	38740
50°	36502	4861	33219
55°	32830	4215	29676
60°	25985	4024	24779
65°	21442	3580	21208
70°	17375	3238	17375
75°	12836	3495	13619
80°	7545	2904	8113
85°	5787	3459	5787



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	343.8	9.4
10°-20°	902.4	24.5
20°-30°	1030.0	28.0
30°-40°	683.1	18.6
40°-50°	329.5	9.0
50°-60°	202.7	5.5
60°-70°	122.6	3.3
70°-80°	51.6	1.4
80°-90°	11.4	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°	2276.2	61.9
0°-40°	2959.3	80.5
0°-60°	3491.4	95.0
0°-90°	3677.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3677.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3612	3612	3612	3612	3612	
5°	3636	3674	3691	3573	3579	342
15°	3283	3283	3296	3156	3213	915
25°	2467	2385	2118	2241	2298	1119
35°	1394	1229	656	1146	1225	862
45°	566	496	147	463	500	461
55°	344	279	44	279	310	302
65°	165	158	28	149	164	166
75°	61	61	16	57	64	65
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°	3611.8	3611.8	3611.8	3611.8	3611.8	3611.8	3611.8	3611.8	3611.8
2.5°	3621.0	3626.5	3637.5	3639.3	3633.8	3598.9	3569.5	3580.6	3589.7
5°	3635.7	3646.7	3674.2	3700.0	3690.8	3632.0	3573.2	3571.4	3578.7
7.5°	3582.4	3608.1	3665.1	3729.4	3727.5	3626.5	3540.1	3518.1	3518.1
10°	3477.7	3501.6	3564.0	3650.4	3648.5	3521.8	3426.2	3415.2	3417.0
12.5°	3384.0	3395.0	3426.2	3494.2	3494.2	3369.3	3295.8	3306.8	3321.5
15°	3282.9	3290.3	3282.9	3305.0	3295.8	3192.9	3156.2	3191.1	3213.1
17.5°	3139.6	3143.3	3104.7	3075.3	3040.4	2976.1	2985.3	3036.8	3042.3
20°	2939.4	2963.3	2893.5	2818.1	2785.1	2724.5	2775.9	2832.8	2829.2
22.5°	2718.9	2746.5	2656.5	2531.6	2463.6	2439.7	2531.6	2583.0	2581.2
25°	2467.3	2487.5	2384.6	2210.1	2118.2	2114.5	2241.3	2294.6	2298.2
27.5°	2184.3	2191.7	2075.9	1848.1	1734.2	1761.8	1921.6	1995.1	2004.3
30°	1901.4	1897.7	1778.3	1495.4	1344.8	1420.1	1635.0	1715.9	1725.1
32.5°	1642.4	1631.4	1495.4	1157.4	977.3	1089.4	1372.3	1456.8	1471.5
35°	1394.4	1376.0	1229.0	856.1	655.9	823.0	1146.4	1219.8	1225.4
37.5°	1135.3	1126.2	1010.4	641.2	457.4	624.6	935.1	988.4	982.9
40°	894.7	894.7	799.1	475.8	317.8	464.8	740.4	788.1	771.6
42.5°	701.8	711.0	630.1	350.9	226.0	345.4	586.0	630.1	611.8
45°	565.8	565.8	496.0	260.9	147.0	257.2	463.0	503.4	499.7
47.5°	479.5	472.1	402.3	191.1	80.8	192.9	389.5	439.1	437.2
50°	428.0	417.0	345.4	150.6	57.0	159.8	341.7	387.6	389.5
52.5°	387.6	371.1	310.5	134.1	49.6	139.6	310.5	347.2	347.2
55°	343.5	334.4	279.2	119.4	44.1	124.9	279.2	312.3	310.5
57.5°	290.3	288.4	249.8	108.4	40.4	110.2	249.8	270.1	262.7
60°	237.0	244.3	216.8	97.4	36.7	99.2	213.1	229.6	226.0
62.5°	198.4	207.6	189.2	86.3	31.2	88.2	180.0	196.6	192.9
65°	165.3	172.7	158.0	73.5	27.6	73.5	148.8	163.5	163.5
67.5°	135.9	141.5	130.4	60.6	23.9	60.6	121.3	134.1	135.9
70°	108.4	112.1	102.9	47.8	20.2	49.6	95.5	108.4	108.4
72.5°	84.5	86.3	80.8	38.6	18.4	38.6	73.5	84.5	84.5
75°	60.6	64.3	60.6	29.4	16.5	29.4	57.0	62.5	64.3
77.5°	34.9	44.1	44.1	23.9	12.9	22.0	40.4	42.3	42.3
80°	23.9	27.6	31.2	16.5	9.2	16.5	25.7	27.6	25.7
82.5°	16.5	18.4	18.4	11.0	7.3	11.0	16.5	18.4	16.5
85°	9.2	12.9	12.9	9.2	5.5	7.3	9.2	11.0	9.2
87.5°	5.5	7.3	9.2	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)