

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: P799677

Luminaire Tested: **LD6C40D010 EU6409035 6LBMDDWH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P799677
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 EU6409035 6LBMDDWH
Description: 6 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 6LBMDDW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

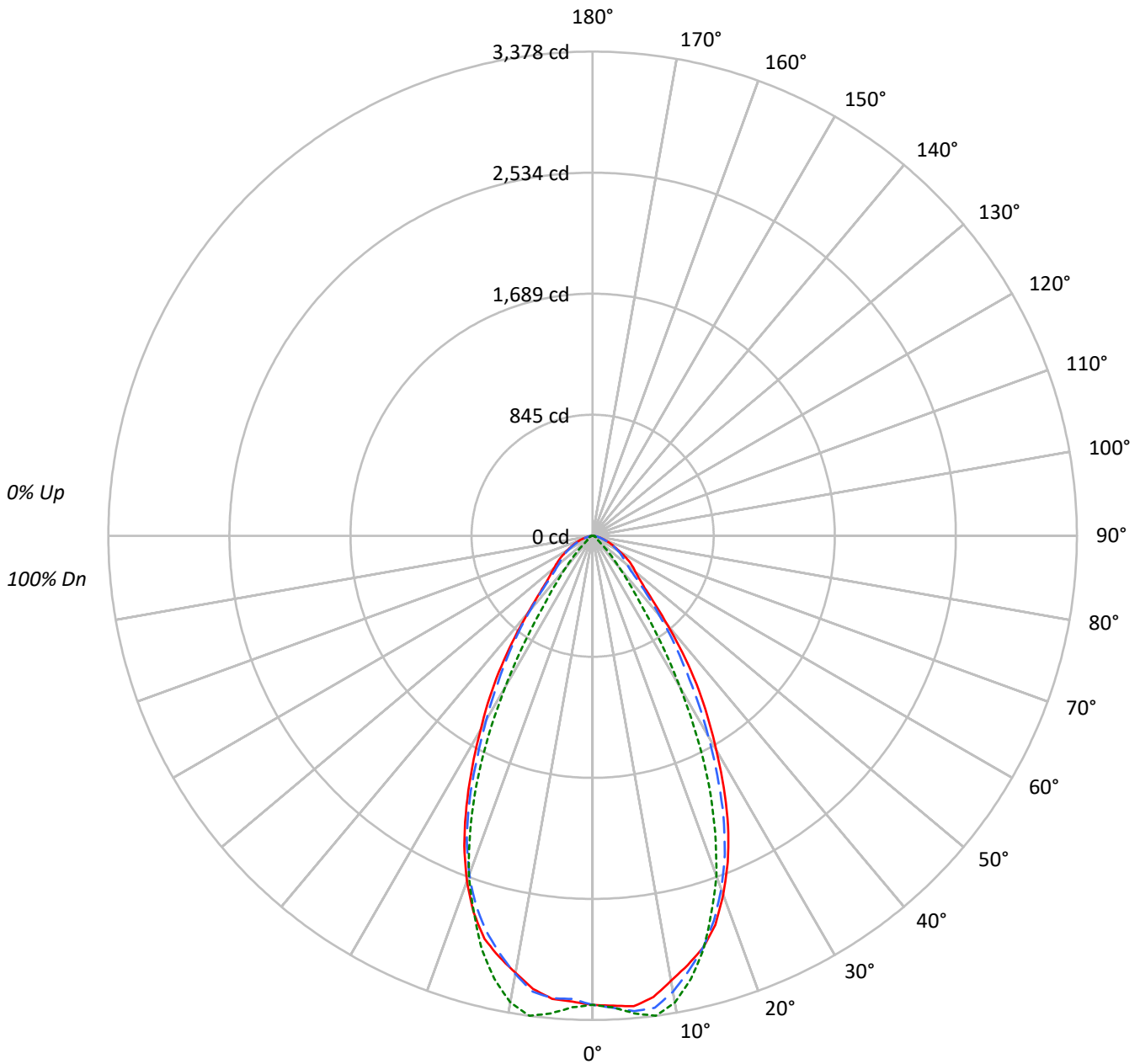
Lumens per Lamp: N/A
Luminaire Lumens: 3332.0 lumens
Efficiency: N/A
Efficacy: 70.9 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.87 / 0.88
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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									
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°	179421	179421	179421
5°	181295	184046	178455
10°	175425	184042	172364
15°	168838	169502	165251
20°	155390	147234	149562
25°	135238	116105	125971
30°	109067	77138	98952
35°	84557	39772	74311
40°	58016	20610	50037
45°	39748	10327	35104
50°	33082	4401	30097
55°	29753	3823	26886
60°	23551	3651	22454
65°	19431	3243	19224
70°	15740	2933	15740
75°	11628	3177	12348
80°	6819	2620	7356
85°	5221	3145	5221



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	311.5	9.4
10°-20°	817.7	24.5
20°-30°	933.4	28.0
30°-40°	619.0	18.6
40°-50°	298.5	9.0
50°-60°	183.6	5.5
60°-70°	111.1	3.3
70°-80°	46.8	1.4
80°-90°	10.3	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°	2062.6	61.9
0°-40°	2681.6	80.5
0°-60°	3163.8	95.0
0°-90°	3332.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3332.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3273	3273	3273	3273	3273	
5°	3294	3330	3344	3238	3243	310
15°	2975	2975	2987	2860	2912	829
25°	2236	2161	1920	2031	2083	1014
35°	1264	1114	594	1039	1110	782
45°	513	450	133	420	453	418
55°	311	253	40	253	281	274
65°	150	143	25	135	148	150
75°	55	55	15	52	58	59
85°	8	12	5	8	8	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°	3272.9	3272.9	3272.9	3272.9	3272.9	3272.9	3272.9	3272.9	3272.9
2.5°	3281.2	3286.2	3296.2	3297.9	3292.9	3261.3	3234.6	3244.6	3252.9
5°	3294.5	3304.5	3329.5	3352.8	3344.5	3291.2	3237.9	3236.3	3242.9
7.5°	3246.3	3269.6	3321.2	3379.4	3377.8	3286.2	3208.0	3188.0	3188.0
10°	3151.4	3173.0	3229.6	3307.9	3306.2	3191.3	3104.8	3094.8	3096.4
12.5°	3066.5	3076.5	3104.8	3166.4	3166.4	3053.2	2986.6	2996.6	3009.9
15°	2974.9	2981.6	2974.9	2994.9	2986.6	2893.3	2860.0	2891.7	2911.7
17.5°	2845.1	2848.4	2813.4	2786.8	2755.2	2696.9	2705.2	2751.8	2756.8
20°	2663.6	2685.2	2622.0	2553.7	2523.8	2468.8	2515.4	2567.0	2563.7
22.5°	2463.8	2488.8	2407.2	2294.0	2232.4	2210.8	2294.0	2340.6	2339.0
25°	2235.8	2254.1	2160.8	2002.7	1919.5	1916.1	2031.0	2079.3	2082.6
27.5°	1979.4	1986.0	1881.2	1674.7	1571.5	1596.5	1741.3	1807.9	1816.2
30°	1723.0	1719.7	1611.5	1355.1	1218.6	1286.9	1481.6	1554.9	1563.2
32.5°	1488.3	1478.3	1355.1	1048.8	885.6	987.2	1243.6	1320.1	1333.5
35°	1263.5	1246.9	1113.7	775.8	594.3	745.8	1038.8	1105.4	1110.4
37.5°	1028.8	1020.5	915.6	581.0	414.5	566.0	847.4	895.6	890.6
40°	810.7	810.7	724.2	431.2	288.0	421.2	670.9	714.2	699.2
42.5°	635.9	644.3	571.0	318.0	204.8	313.0	531.1	571.0	554.4
45°	512.7	512.7	449.5	236.4	133.2	233.1	419.5	456.1	452.8
47.5°	434.5	427.8	364.6	173.1	73.2	174.8	352.9	397.9	396.2
50°	387.9	377.9	313.0	136.5	51.6	144.8	309.6	351.3	352.9
52.5°	351.3	336.3	281.3	121.5	44.9	126.5	281.3	314.6	314.6
55°	311.3	303.0	253.0	108.2	40.0	113.2	253.0	283.0	281.3
57.5°	263.0	261.4	226.4	98.2	36.6	99.9	226.4	244.7	238.1
60°	214.8	221.4	196.4	88.2	33.3	89.9	193.1	208.1	204.8
62.5°	179.8	188.1	171.5	78.2	28.3	79.9	163.1	178.1	174.8
65°	149.8	156.5	143.2	66.6	25.0	66.6	134.8	148.2	148.2
67.5°	123.2	128.2	118.2	54.9	21.6	54.9	109.9	121.5	123.2
70°	98.2	101.5	93.2	43.3	18.3	44.9	86.6	98.2	98.2
72.5°	76.6	78.2	73.2	35.0	16.6	35.0	66.6	76.6	76.6
75°	54.9	58.3	54.9	26.6	15.0	26.6	51.6	56.6	58.3
77.5°	31.6	40.0	40.0	21.6	11.7	20.0	36.6	38.3	38.3
80°	21.6	25.0	28.3	15.0	8.3	15.0	23.3	25.0	23.3
82.5°	15.0	16.6	16.6	10.0	6.7	10.0	15.0	16.6	15.0
85°	8.3	11.7	11.7	8.3	5.0	6.7	8.3	10.0	8.3
87.5°	5.0	6.7	8.3	6.7	5.0	5.0	5.0	5.0	3.3
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)