

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: P799683

Luminaire Tested: **LD6C40D010 EU6409035 6LBMDSWH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P799683
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2309-186-5)
Test Lab: INNOVATION CENTER
Issue Date: 4/12/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD6C40D010 EU6409035 6LBMDSWH
Description: 6 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 6LBMDSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

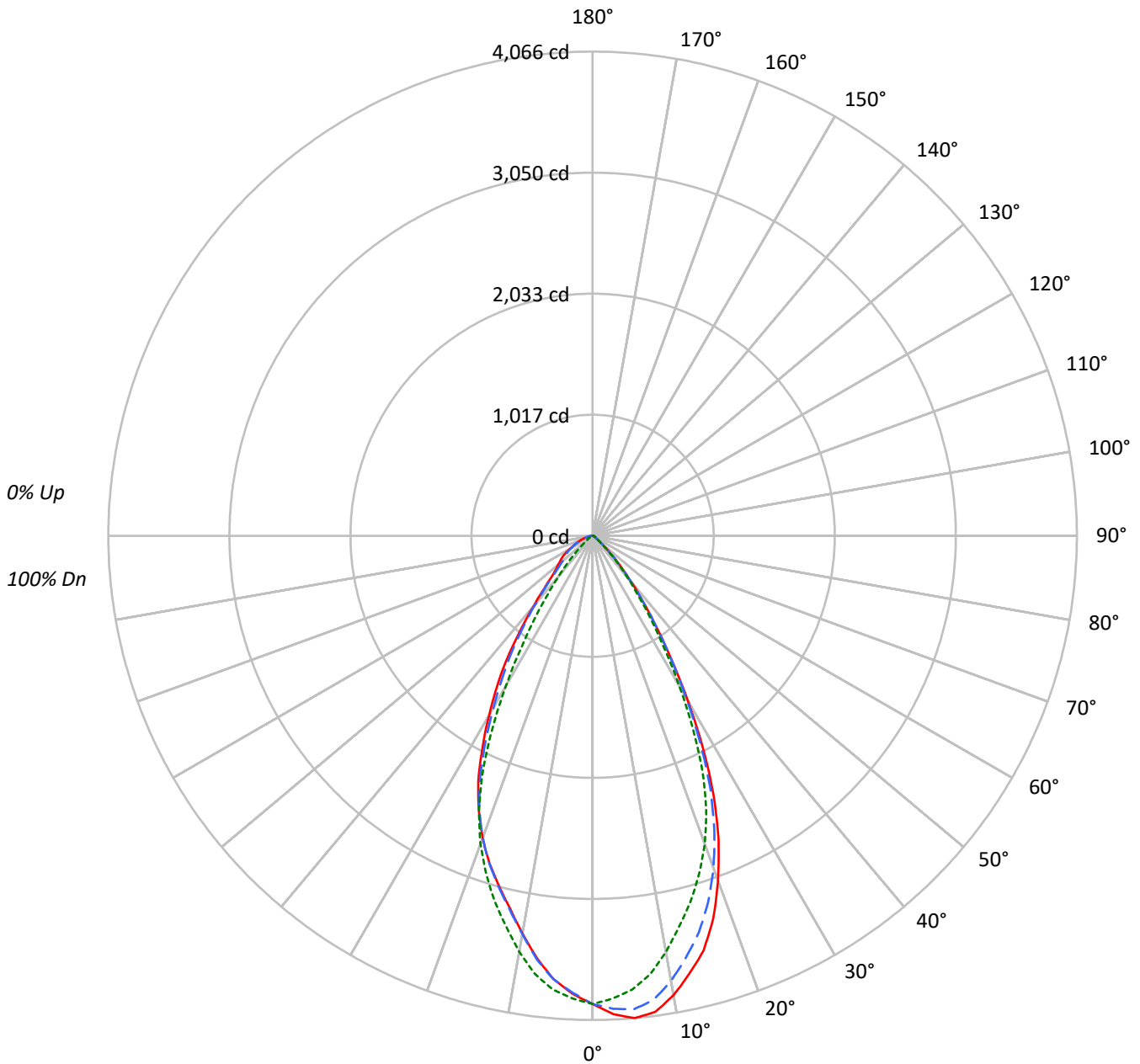
Lumens per Lamp: N/A
Luminaire Lumens: 3385.0 lumens
Efficiency: N/A
Efficacy: 72.0 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P799683

CATALOG NUMBER: LD6C40D010 EU6409035 6LBMSWH

Luminous Intensity Polar Plot





TEST NUMBER: P799683

CATALOG NUMBER: LD6C40D010 EU6409035 6LBMDSWH

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	113	110	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92																			
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85																			
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78																			
4	96	88	82	77	94	87	81	77	84	80	76	82	78	75	80	77	74	73																			
5	91	82	76	71	89	81	75	71	79	74	70	77	73	70	76	72	69	67																			
6	86	77	70	66	84	76	70	66	74	69	65	73	68	65	71	67	64	63																			
7	82	72	66	61	80	71	65	61	70	65	61	69	64	60	68	63	60	59																			
8	78	68	61	57	76	67	61	57	66	61	57	65	60	57	64	60	56	55																			
9	74	64	58	54	73	63	58	54	62	57	53	61	57	53	61	56	53	52																			
10	70	60	54	50	69	60	54	50	59	54	50	58	53	50	58	53	50	49																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	215531	215531	215531
5°	223728	210477	205717
10°	218010	197425	188741
15°	204462	180398	172600
20°	179496	160594	157525
25°	145170	131935	137373
30°	100927	91907	109941
35°	62205	56302	82978
40°	35202	31559	55103
45°	17095	16304	37609
50°	6507	6507	31965
55°	3565	4215	29504
60°	2598	3344	24176
65°	2205	2854	19808
70°	1907	2452	16317
75°	1800	2521	14001
80°	1073	2147	10165
85°	1069	4277	9624



TEST NUMBER: P799683

CATALOG NUMBER: LD6C40D010 EU6409035 6LBMDSWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	359.9	10.6
10°-20°	904.6	26.7
20°-30°	1018.4	30.1
30°-40°	630.6	18.6
40°-50°	251.1	7.4
50°-60°	114.3	3.4
60°-70°	65.7	1.9
70°-80°	31.2	0.9
80°-90°	9.1	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°	2282.9	67.4
0°-40°	2913.5	86.1
0°-60°	3279.0	96.9
0°-90°	3385.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3385.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3932	3932	3932	3932	3932	
5°	4066	3991	3825	3742	3738	383
15°	3603	3446	3179	3050	3041	997
25°	2400	2336	2181	2236	2271	1079
35°	930	924	841	1172	1240	597
45°	220	220	210	458	485	187
55°	37	36	44	271	309	37
65°	17	15	22	151	153	17
75°	8	8	12	64	66	9
85°	2	2	7	15	15	1
90°	0	0	0	0	0	



TEST NUMBER: P799683

CATALOG NUMBER: LD6C40D010 EU6409035 6LBMDSWH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	3931.6	3931.6	3931.6	3931.6	3931.6	3931.6	3931.6	3931.6	3931.6
2.5°	4021.5	3984.2	3975.7	3943.5	3889.2	3858.7	3840.0	3826.5	3850.2
5°	4065.6	4024.9	3991.0	3924.8	3824.8	3768.8	3741.7	3719.6	3738.3
7.5°	4033.4	3975.7	3929.9	3838.3	3711.1	3624.6	3587.3	3561.9	3578.8
10°	3916.4	3846.8	3794.2	3685.7	3546.6	3443.1	3397.4	3373.6	3390.6
12.5°	3763.7	3706.0	3626.3	3507.6	3358.3	3249.8	3215.9	3197.2	3204.0
15°	3602.6	3534.7	3446.5	3327.8	3178.6	3070.0	3049.6	3037.8	3041.2
17.5°	3368.5	3302.4	3226.0	3110.7	2973.3	2885.1	2885.1	2876.6	2881.7
20°	3076.8	3041.2	2966.5	2869.9	2752.8	2673.1	2698.5	2690.1	2700.2
22.5°	2761.3	2734.2	2669.7	2590.0	2491.6	2428.9	2484.8	2483.1	2496.7
25°	2400.0	2379.7	2335.6	2267.7	2181.2	2142.2	2235.5	2235.5	2271.1
27.5°	2001.4	1981.1	1950.6	1892.9	1821.6	1809.8	1947.2	1964.1	2003.1
30°	1594.4	1580.8	1563.8	1511.3	1451.9	1473.9	1663.9	1692.7	1736.8
32.5°	1231.4	1222.9	1217.8	1170.3	1117.8	1190.7	1407.8	1445.1	1489.2
35°	929.5	910.8	924.4	888.8	841.3	932.9	1172.0	1204.3	1239.9
37.5°	685.2	671.7	683.5	658.1	615.7	715.8	941.4	961.7	985.5
40°	491.9	480.0	490.2	474.9	441.0	534.3	737.8	759.9	770.0
42.5°	349.4	329.0	339.2	327.4	310.4	402.0	580.1	600.4	603.8
45°	220.5	213.7	220.5	213.7	210.3	298.5	458.0	476.6	485.1
47.5°	134.0	125.5	125.5	122.1	125.5	220.5	378.2	405.4	418.9
50°	76.3	72.9	71.2	69.5	76.3	173.0	327.4	357.9	374.8
52.5°	50.9	49.2	49.2	47.5	56.0	145.9	295.1	322.3	339.2
55°	37.3	35.6	35.6	35.6	44.1	125.5	271.4	293.4	308.7
57.5°	28.8	28.8	28.8	27.1	37.3	106.9	242.5	254.4	266.3
60°	23.7	22.0	22.0	22.0	30.5	91.6	208.6	213.7	220.5
62.5°	18.7	18.7	18.7	18.7	25.4	81.4	179.8	179.8	183.2
65°	17.0	15.3	15.3	15.3	22.0	71.2	151.0	149.3	152.7
67.5°	13.6	13.6	13.6	13.6	18.7	61.1	123.8	122.1	125.5
70°	11.9	11.9	11.9	11.9	15.3	50.9	100.1	98.4	101.8
72.5°	10.2	10.2	10.2	10.2	13.6	42.4	79.7	79.7	81.4
75°	8.5	8.5	8.5	8.5	11.9	32.2	64.5	64.5	66.1
77.5°	6.8	6.8	6.8	6.8	8.5	25.4	49.2	47.5	47.5
80°	3.4	5.1	5.1	5.1	6.8	18.7	35.6	32.2	32.2
82.5°	1.7	3.4	3.4	3.4	6.8	13.6	23.7	22.0	22.0
85°	1.7	1.7	1.7	5.1	6.8	10.2	15.3	15.3	15.3
87.5°	0.0	1.7	3.4	6.8	8.5	8.5	10.2	8.5	8.5
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)