

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: P799709

Luminaire Tested: **LD6C40D010 EU6409050 6LBMDSWMW**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P799709
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 EU6409050 6LBMDSWMW
Description: 6 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 6LBMDSW TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Summary

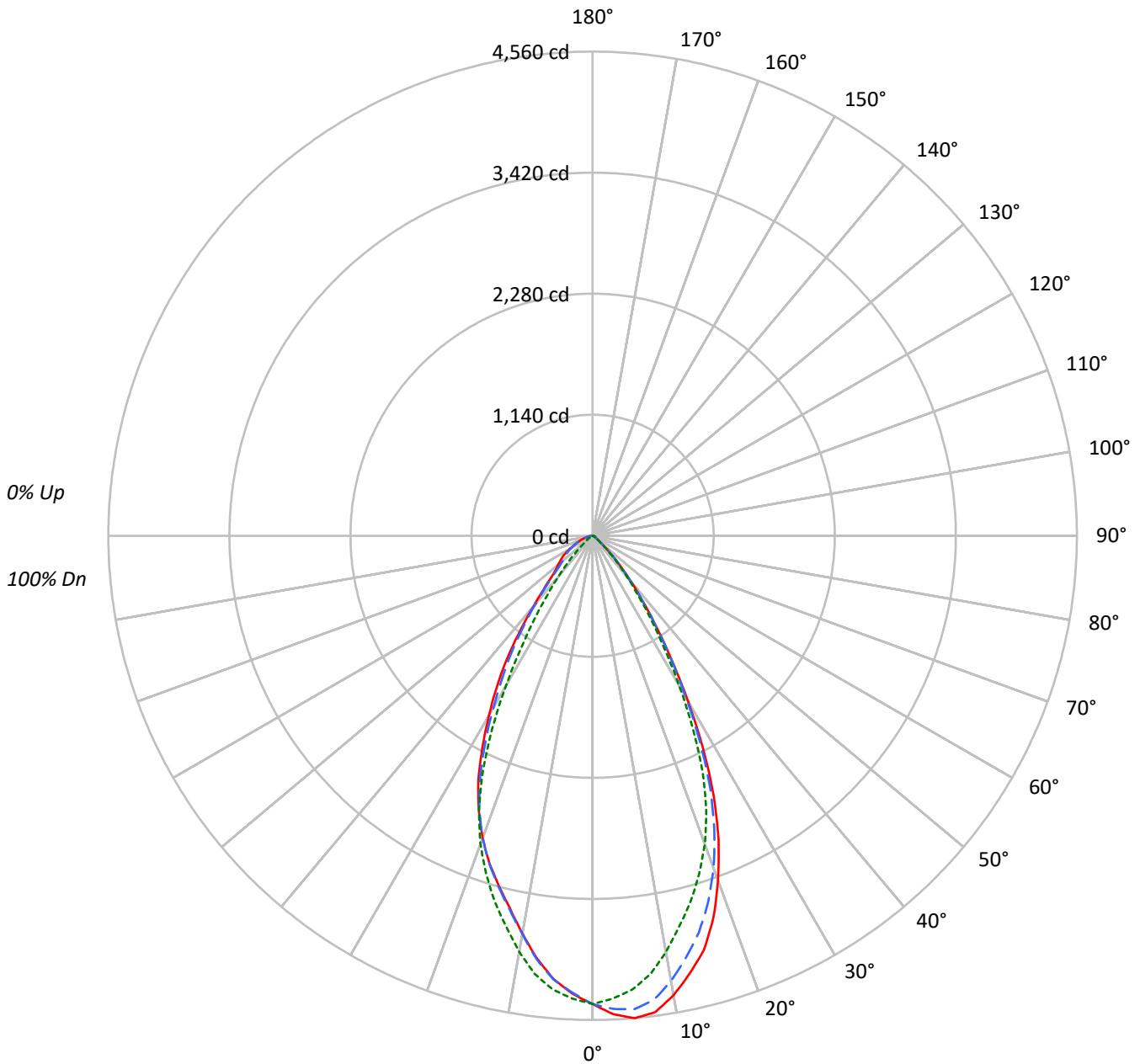
Lumens per Lamp: N/A
Luminaire Lumens: 3797.0 lumens
Efficiency: N/A
Efficacy: 80.8 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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: P799709

CATALOG NUMBER: LD6C40D010 EU6409050 6LBMDSWMW

Luminous Intensity Polar Plot





TEST NUMBER: P799709

CATALOG NUMBER: LD6C40D010 EU6409050 6LBMDSWMW

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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92					92			
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85					85			
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78					78			
4	96	88	82	77	94	87	81	77	84	80	76	82	78	75	80	77	74	73					73			
5	91	82	76	71	89	81	75	71	79	74	70	77	73	70	76	72	69	67					67			
6	86	77	70	66	84	76	70	66	74	69	65	73	68	65	71	67	64	63					63			
7	82	72	66	61	80	71	65	61	70	65	61	69	64	60	68	63	60	59					59			
8	78	68	61	57	76	67	61	57	66	61	57	65	60	57	64	60	56	55					55			
9	74	64	58	54	73	63	58	54	62	57	53	61	57	53	61	56	53	52					52			
10	70	60	54	50	69	60	54	50	59	54	50	58	53	50	58	53	50	49					49			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	241768	241768	241768
5°	250962	236093	230756
10°	244540	221455	211708
15°	229349	202351	193605
20°	201343	180143	176701
25°	162838	147994	154092
30°	113207	103092	123323
35°	69774	63155	93077
40°	39481	35402	61816
45°	19173	18289	42183
50°	7300	7300	35862
55°	4005	4731	33098
60°	2916	3750	27114
65°	2465	3204	22207
70°	2132	2741	18304
75°	2012	2817	15716
80°	1200	2399	11397
85°	1195	4780	10756



TEST NUMBER: P799709

CATALOG NUMBER: LD6C40D010 EU6409050 6LBMDSWMW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	403.7	10.6
10°-20°	1014.7	26.7
20°-30°	1142.3	30.1
30°-40°	707.3	18.6
40°-50°	281.7	7.4
50°-60°	128.2	3.4
60°-70°	73.7	1.9
70°-80°	35.0	0.9
80°-90°	10.2	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°	2560.8	67.4
0°-40°	3268.1	86.1
0°-60°	3678.1	96.9
0°-90°	3797.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3797.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4410	4410	4410	4410	4410	
5°	4560	4477	4290	4197	4193	429
15°	4041	3866	3565	3421	3411	1118
25°	2692	2620	2447	2508	2548	1210
35°	1043	1037	944	1315	1391	670
45°	247	247	236	514	544	210
55°	42	40	50	304	346	42
65°	19	17	25	169	171	19
75°	10	10	13	72	74	10
85°	2	2	8	17	17	2
90°	0	0	0	0	0	



TEST NUMBER: P799709

CATALOG NUMBER: LD6C40D010 EU6409050 6LBMDSWMW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	4410.2	4410.2	4410.2	4410.2	4410.2	4410.2	4410.2	4410.2	4410.2
2.5°	4511.0	4469.1	4459.6	4423.5	4362.6	4328.4	4307.4	4292.2	4318.8
5°	4560.5	4514.8	4476.8	4402.6	4290.3	4227.5	4197.1	4172.3	4193.3
7.5°	4524.3	4459.6	4408.3	4305.5	4162.8	4065.8	4023.9	3995.4	4014.4
10°	4393.0	4315.0	4256.1	4134.3	3978.3	3862.2	3810.9	3784.2	3803.2
12.5°	4221.8	4157.1	4067.7	3934.5	3767.1	3645.3	3607.3	3586.4	3594.0
15°	4041.1	3965.0	3866.0	3732.9	3565.4	3443.7	3420.8	3407.5	3411.3
17.5°	3778.5	3704.3	3618.7	3489.3	3335.2	3236.3	3236.3	3226.8	3232.5
20°	3451.3	3411.3	3327.6	3219.2	3087.9	2998.5	3027.0	3017.5	3028.9
22.5°	3097.4	3066.9	2994.7	2905.2	2794.9	2724.5	2787.3	2785.4	2800.6
25°	2692.1	2669.3	2619.8	2543.7	2446.7	2403.0	2507.6	2507.6	2547.5
27.5°	2245.0	2222.2	2188.0	2123.3	2043.4	2030.0	2184.2	2203.2	2246.9
30°	1788.4	1773.2	1754.2	1695.2	1628.6	1653.3	1866.4	1898.8	1948.2
32.5°	1381.3	1371.8	1366.0	1312.8	1253.8	1335.6	1579.1	1621.0	1670.5
35°	1042.6	1021.7	1036.9	996.9	943.7	1046.4	1314.7	1350.8	1390.8
37.5°	768.6	753.4	766.7	738.2	690.6	802.9	1055.9	1078.8	1105.4
40°	551.7	538.4	549.8	532.7	494.7	599.3	827.6	852.4	863.8
42.5°	391.9	369.1	380.5	367.2	348.2	450.9	650.7	673.5	677.3
45°	247.3	239.7	247.3	239.7	235.9	334.9	513.7	534.6	544.1
47.5°	150.3	140.8	140.8	137.0	140.8	247.3	424.3	454.7	469.9
50°	85.6	81.8	79.9	78.0	85.6	194.1	367.2	401.4	420.5
52.5°	57.1	55.2	55.2	53.3	62.8	163.6	331.0	361.5	380.5
55°	41.9	40.0	40.0	40.0	49.5	140.8	304.4	329.1	346.3
57.5°	32.3	32.3	32.3	30.4	41.9	119.9	272.1	285.4	298.7
60°	26.6	24.7	24.7	24.7	34.2	102.7	234.0	239.7	247.3
62.5°	20.9	20.9	20.9	20.9	28.5	91.3	201.7	201.7	205.5
65°	19.0	17.1	17.1	17.1	24.7	79.9	169.3	167.4	171.2
67.5°	15.2	15.2	15.2	15.2	20.9	68.5	138.9	137.0	140.8
70°	13.3	13.3	13.3	13.3	17.1	57.1	112.3	110.3	114.2
72.5°	11.4	11.4	11.4	11.4	15.2	47.6	89.4	89.4	91.3
75°	9.5	9.5	9.5	9.5	13.3	36.1	72.3	72.3	74.2
77.5°	7.6	7.6	7.6	7.6	9.5	28.5	55.2	53.3	53.3
80°	3.8	5.7	5.7	5.7	7.6	20.9	40.0	36.1	36.1
82.5°	1.9	3.8	3.8	3.8	7.6	15.2	26.6	24.7	24.7
85°	1.9	1.9	1.9	5.7	7.6	11.4	17.1	17.1	17.1
87.5°	0.0	1.9	3.8	7.6	9.5	9.5	11.4	9.5	9.5
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)