

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: P799841

Luminaire Tested: **LD6C55D010 EU6559027 6LBMDSWMW**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P799841
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: LD6C55D010 EU6559027 6LBMDSWMW
Description: 6 INCH 5500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 6LBMDSW TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Summary

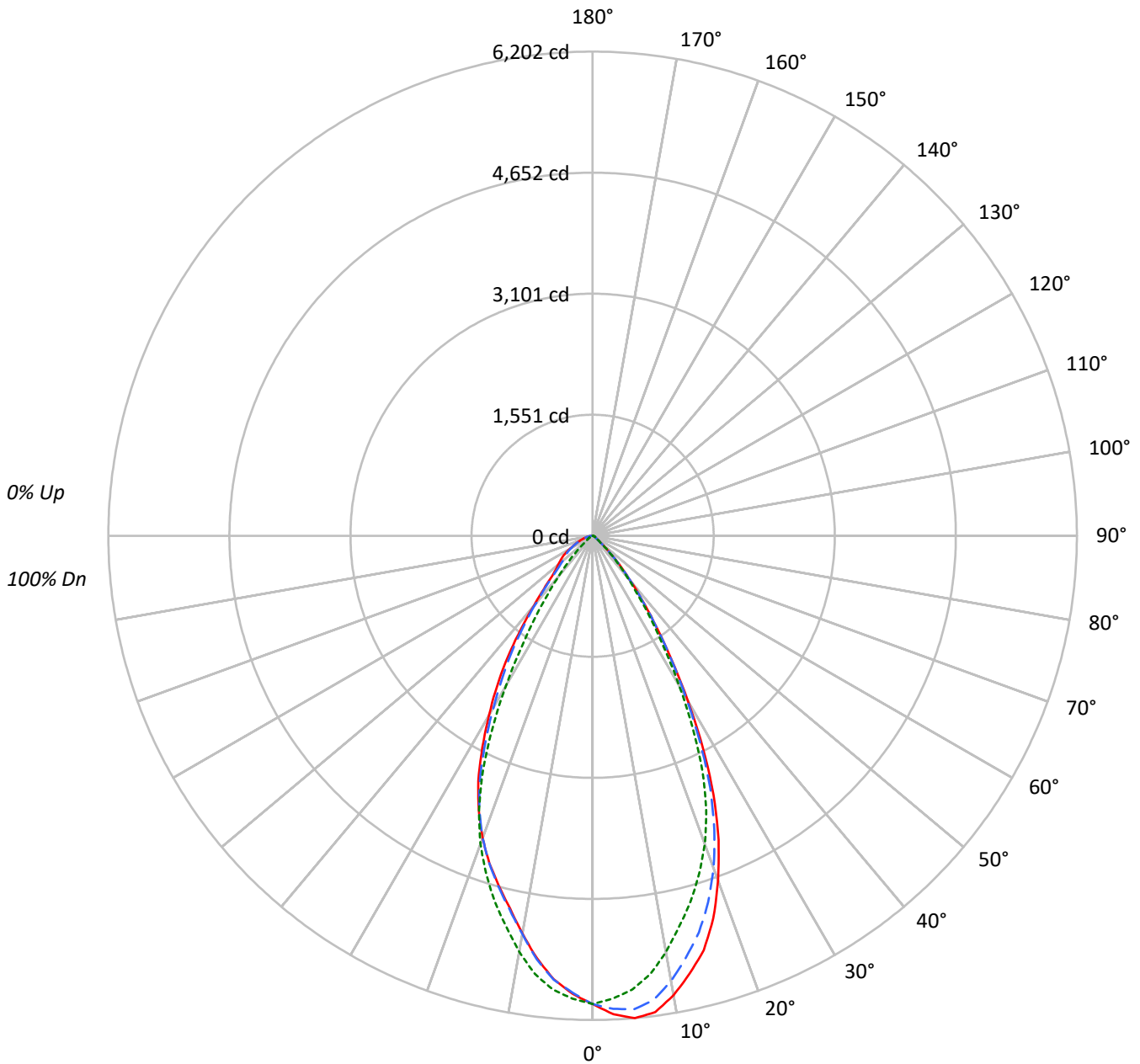
Lumens per Lamp: N/A
Luminaire Lumens: 5164.0 lumens
Efficiency: N/A
Efficacy: 80.8 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 63.9
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: P799841

CATALOG NUMBER: LD6C55D010 EU6559027 6LBMDSWMW

Luminous Intensity Polar Plot





TEST NUMBER: P799841

CATALOG NUMBER: LD6C55D010 EU6559027 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°	328806	328806	328806
5°	341310	321092	313828
10°	332581	301180	287932
15°	311914	275206	263310
20°	273829	244998	240319
25°	221468	201278	209571
30°	153967	140205	167722
35°	94897	85889	126585
40°	53701	48147	84065
45°	26080	24879	57370
50°	9927	9927	48766
55°	5438	6432	45007
60°	3969	5109	36883
65°	3360	4358	30211
70°	2901	3735	24892
75°	2732	3834	21372
80°	1642	3283	15532
85°	1635	6542	14655



TEST NUMBER: P799841

CATALOG NUMBER: LD6C55D010 EU6559027 6LBMDSWMW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	549.1	10.6
10°-20°	1380.1	26.7
20°-30°	1553.6	30.1
30°-40°	962.0	18.6
40°-50°	383.1	7.4
50°-60°	174.4	3.4
60°-70°	100.3	1.9
70°-80°	47.6	0.9
80°-90°	13.9	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°	3482.7	67.4
0°-40°	4444.7	86.1
0°-60°	5002.2	96.9
0°-90°	5164.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5164.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5998	5998	5998	5998	5998	
5°	6202	6088	5835	5708	5703	584
15°	5496	5258	4849	4652	4640	1521
25°	3661	3563	3328	3410	3465	1646
35°	1418	1410	1283	1788	1892	911
45°	336	336	321	699	740	285
55°	57	54	67	414	471	57
65°	26	23	34	230	233	25
75°	13	13	18	98	101	13
85°	3	3	10	23	23	2
90°	0	0	0	0	0	



TEST NUMBER: P799841

CATALOG NUMBER: LD6C55D010 EU6559027 6LBMSWMMW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	5997.9	5997.9	5997.9	5997.9	5997.9	5997.9	5997.9	5997.9	5997.9
2.5°	6135.1	6078.1	6065.2	6016.0	5933.2	5886.7	5858.2	5837.5	5873.7
5°	6202.3	6140.2	6088.5	5987.6	5834.9	5749.5	5708.1	5674.5	5702.9
7.5°	6153.2	6065.2	5995.3	5855.6	5661.5	5529.6	5472.6	5433.8	5459.7
10°	5974.6	5868.5	5788.3	5622.7	5410.5	5252.7	5182.8	5146.6	5172.5
12.5°	5741.8	5653.8	5532.2	5351.0	5123.3	4957.7	4906.0	4877.5	4887.9
15°	5495.9	5392.4	5257.9	5076.8	4849.1	4683.4	4652.4	4634.3	4639.5
17.5°	5138.9	5037.9	4921.5	4745.6	4536.0	4401.4	4401.4	4388.5	4396.2
20°	4693.8	4639.5	4525.6	4378.1	4199.6	4078.0	4116.8	4103.8	4119.4
22.5°	4212.5	4171.1	4072.8	3951.2	3801.1	3705.4	3790.7	3788.2	3808.9
25°	3661.4	3630.3	3563.0	3459.5	3327.6	3268.1	3410.4	3410.4	3464.7
27.5°	3053.3	3022.2	2975.7	2887.7	2779.0	2760.9	2970.5	2996.4	3055.9
30°	2432.3	2411.6	2385.7	2305.5	2214.9	2248.6	2538.4	2582.4	2649.6
32.5°	1878.6	1865.6	1857.9	1785.4	1705.2	1816.5	2147.7	2204.6	2271.9
35°	1418.0	1389.5	1410.2	1355.9	1283.4	1423.1	1788.0	1837.2	1891.5
37.5°	1045.4	1024.7	1042.8	1004.0	939.3	1091.9	1436.1	1467.1	1503.4
40°	750.4	732.3	747.8	724.5	672.8	815.1	1125.6	1159.2	1174.7
42.5°	533.0	502.0	517.5	499.4	473.5	613.2	884.9	916.0	921.2
45°	336.4	326.0	336.4	326.0	320.9	455.4	698.6	727.1	740.0
47.5°	204.4	191.5	191.5	186.3	191.5	336.4	577.0	618.4	639.1
50°	116.4	111.3	108.7	106.1	116.4	263.9	499.4	546.0	571.8
52.5°	77.6	75.0	75.0	72.5	85.4	222.5	450.2	491.6	517.5
55°	56.9	54.3	54.3	54.3	67.3	191.5	414.0	447.6	470.9
57.5°	44.0	44.0	44.0	41.4	56.9	163.0	370.0	388.1	406.2
60°	36.2	33.6	33.6	33.6	46.6	139.7	318.3	326.0	336.4
62.5°	28.5	28.5	28.5	28.5	38.8	124.2	274.3	274.3	279.5
65°	25.9	23.3	23.3	23.3	33.6	108.7	230.3	227.7	232.9
67.5°	20.7	20.7	20.7	20.7	28.5	93.2	188.9	186.3	191.5
70°	18.1	18.1	18.1	18.1	23.3	77.6	152.7	150.1	155.3
72.5°	15.5	15.5	15.5	15.5	20.7	64.7	121.6	121.6	124.2
75°	12.9	12.9	12.9	12.9	18.1	49.2	98.3	98.3	100.9
77.5°	10.4	10.4	10.4	10.4	12.9	38.8	75.0	72.5	72.5
80°	5.2	7.8	7.8	7.8	10.4	28.5	54.3	49.2	49.2
82.5°	2.6	5.2	5.2	5.2	10.4	20.7	36.2	33.6	33.6
85°	2.6	2.6	2.6	7.8	10.4	15.5	23.3	23.3	23.3
87.5°	0.0	2.6	5.2	10.4	12.9	12.9	15.5	12.9	12.9
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)