

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: P799769

Luminaire Tested: **LD6C45D010 EU6459050 6LBMDSWMW**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P799769
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: LD6C45D010 EU6459050 6LBMDSWMW
Description: 6 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 6LBMDSW TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Summary

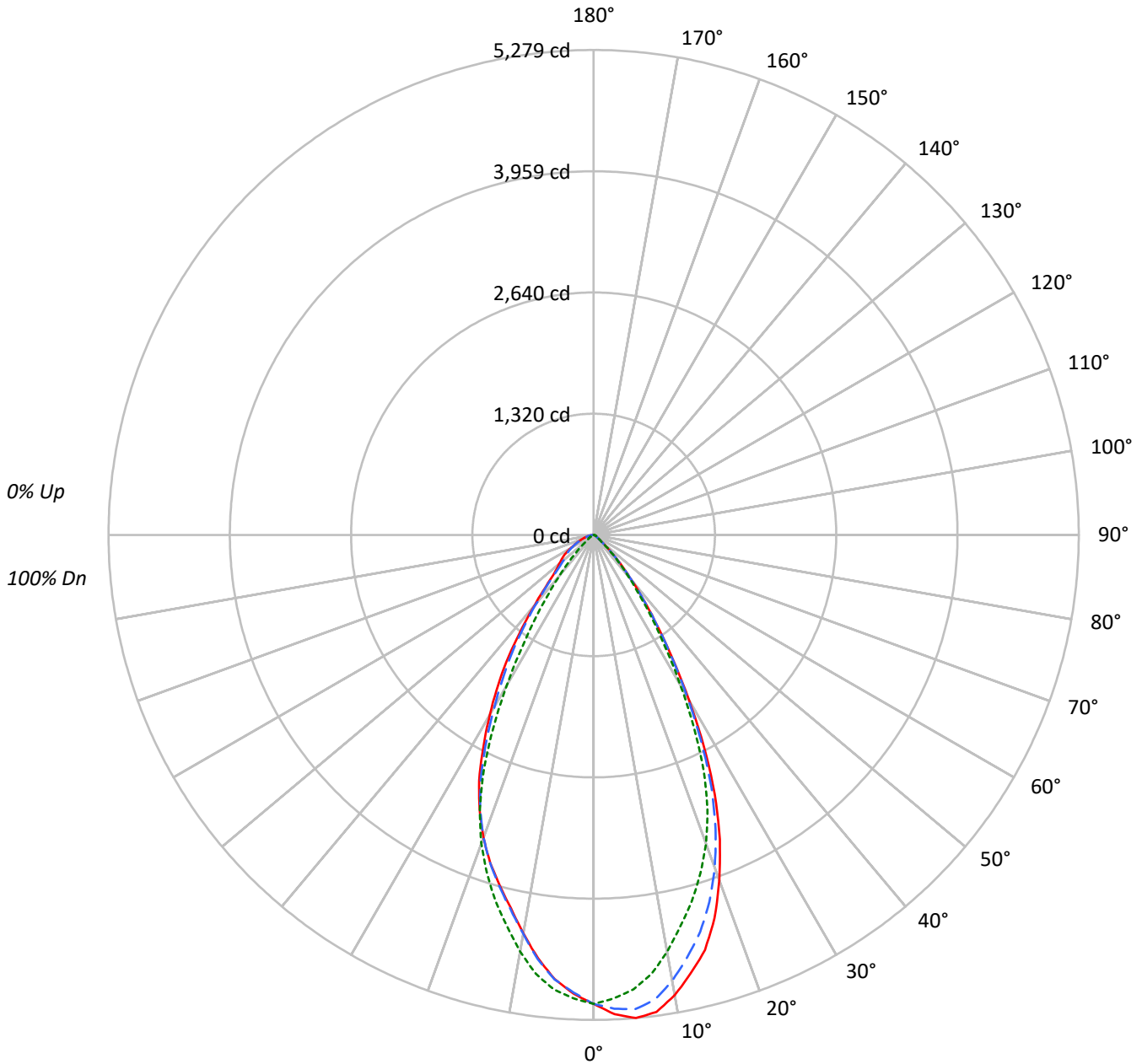
Lumens per Lamp: N/A
Luminaire Lumens: 4395.0 lumens
Efficiency: N/A
Efficacy: 88.6 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 49.6
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: P799769

CATALOG NUMBER: LD6C45D010 EU6459050 6LBMDSWMW

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	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°	279841	279841	279841
5°	290485	273277	267097
10°	283055	256330	245052
15°	265467	234224	224099
20°	233050	208513	204529
25°	188485	171300	178365
30°	131039	119328	142750
35°	80763	73100	107733
40°	45700	40977	71548
45°	22196	21173	48827
50°	8452	8452	41508
55°	4626	5477	38307
60°	3377	4342	31390
65°	2854	3710	25710
70°	2468	3174	21173
75°	2330	3262	18194
80°	1389	2778	13196
85°	1384	5535	12454



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	467.3	10.6
10°-20°	1174.6	26.7
20°-30°	1322.2	30.1
30°-40°	818.7	18.6
40°-50°	326.1	7.4
50°-60°	148.4	3.4
60°-70°	85.3	1.9
70°-80°	40.5	0.9
80°-90°	11.8	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°	2964.1	67.4
0°-40°	3782.8	86.1
0°-60°	4257.3	96.9
0°-90°	4395.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4395.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5105	5105	5105	5105	5105	
5°	5279	5182	4966	4858	4854	497
15°	4678	4475	4127	3960	3949	1294
25°	3116	3032	2832	2902	2949	1401
35°	1207	1200	1092	1522	1610	776
45°	286	286	273	595	630	243
55°	48	46	57	352	401	48
65°	22	20	29	196	198	21
75°	11	11	15	84	86	11
85°	2	2	9	20	20	2
90°	0	0	0	0	0	



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CATALOG NUMBER: LD6C45D010 EU6459050 6LBMSWMMW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	5104.7	5104.7	5104.7	5104.7	5104.7	5104.7	5104.7	5104.7	5104.7
2.5°	5221.5	5173.0	5162.0	5120.2	5049.7	5010.0	4985.8	4968.2	4999.0
5°	5278.7	5225.9	5181.8	5095.9	4966.0	4893.3	4858.1	4829.5	4853.7
7.5°	5236.9	5162.0	5102.5	4983.6	4818.4	4706.1	4657.7	4624.7	4646.7
10°	5084.9	4994.6	4926.4	4785.4	4604.8	4470.5	4411.0	4380.2	4402.2
12.5°	4886.7	4811.8	4708.3	4554.2	4360.4	4219.4	4175.4	4151.2	4160.0
15°	4677.5	4589.4	4474.9	4320.7	4127.0	3986.0	3959.6	3944.2	3948.6
17.5°	4373.6	4287.7	4188.6	4038.9	3860.5	3746.0	3746.0	3735.0	3741.6
20°	3994.8	3948.6	3851.7	3726.1	3574.2	3470.7	3503.7	3492.7	3505.9
22.5°	3585.2	3550.0	3466.3	3362.8	3235.1	3153.6	3226.2	3224.0	3241.7
25°	3116.1	3089.7	3032.5	2944.4	2832.0	2781.4	2902.5	2902.5	2948.8
27.5°	2598.6	2572.2	2532.5	2457.7	2365.2	2349.8	2528.1	2550.2	2600.8
30°	2070.1	2052.5	2030.4	1962.2	1885.1	1913.7	2160.4	2197.8	2255.1
32.5°	1598.8	1587.8	1581.2	1519.5	1451.3	1546.0	1827.8	1876.3	1933.5
35°	1206.8	1182.6	1200.2	1154.0	1092.3	1211.2	1521.7	1563.6	1609.8
37.5°	889.7	872.1	887.5	854.5	799.4	929.3	1222.2	1248.7	1279.5
40°	638.6	623.2	636.4	616.6	572.6	693.7	958.0	986.6	999.8
42.5°	453.7	427.2	440.4	425.0	403.0	521.9	753.2	779.6	784.0
45°	286.3	277.5	286.3	277.5	273.1	387.6	594.6	618.8	629.8
47.5°	174.0	163.0	163.0	158.6	163.0	286.3	491.1	526.3	543.9
50°	99.1	94.7	92.5	90.3	99.1	224.6	425.0	464.7	486.7
52.5°	66.1	63.9	63.9	61.7	72.7	189.4	383.2	418.4	440.4
55°	48.4	46.2	46.2	46.2	57.3	163.0	352.4	381.0	400.8
57.5°	37.4	37.4	37.4	35.2	48.4	138.7	314.9	330.3	345.7
60°	30.8	28.6	28.6	28.6	39.6	118.9	270.9	277.5	286.3
62.5°	24.2	24.2	24.2	24.2	33.0	105.7	233.4	233.4	237.8
65°	22.0	19.8	19.8	19.8	28.6	92.5	196.0	193.8	198.2
67.5°	17.6	17.6	17.6	17.6	24.2	79.3	160.8	158.6	163.0
70°	15.4	15.4	15.4	15.4	19.8	66.1	129.9	127.7	132.1
72.5°	13.2	13.2	13.2	13.2	17.6	55.1	103.5	103.5	105.7
75°	11.0	11.0	11.0	11.0	15.4	41.8	83.7	83.7	85.9
77.5°	8.8	8.8	8.8	8.8	11.0	33.0	63.9	61.7	61.7
80°	4.4	6.6	6.6	6.6	8.8	24.2	46.2	41.8	41.8
82.5°	2.2	4.4	4.4	4.4	8.8	17.6	30.8	28.6	28.6
85°	2.2	2.2	2.2	6.6	8.8	13.2	19.8	19.8	19.8
87.5°	0.0	2.2	4.4	8.8	11.0	11.0	13.2	11.0	11.0
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)