

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: P799713

Luminaire Tested: **LD6C45D010 EU6459027 6LBMDDWH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P799713
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: LD6C45D010 EU6459027 6LBMDDWH
Description: 6 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 6LBMDDW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

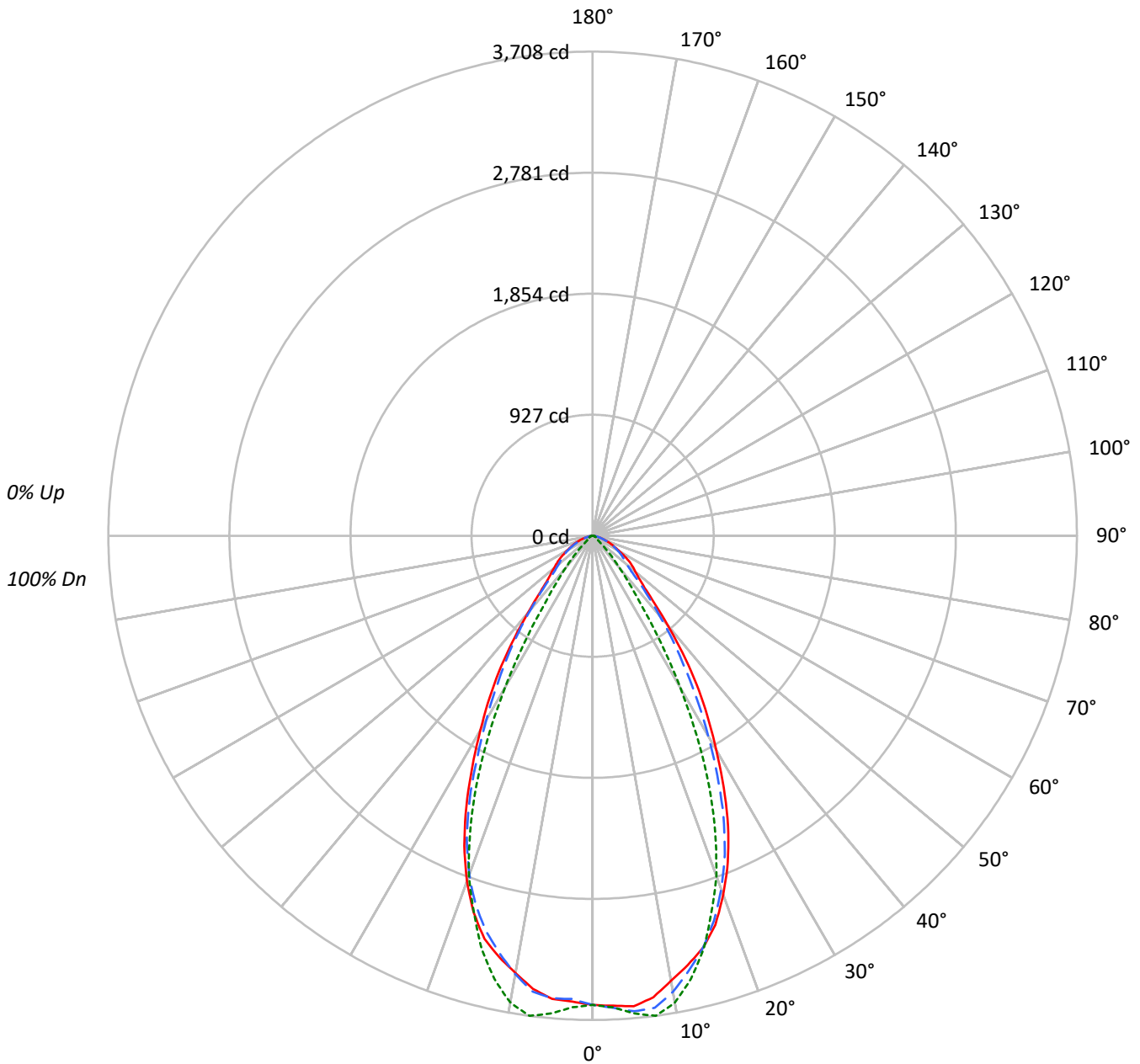
Lumens per Lamp: N/A
Luminaire Lumens: 3658.0 lumens
Efficiency: N/A
Efficacy: 73.8 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.87 / 0.88
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P799713

CATALOG NUMBER: LD6C45D010 EU6459027 6LBMDDWH

Luminous Intensity Polar Plot





TEST NUMBER: P799713

CATALOG NUMBER: LD6C45D010 EU6459027 6LBMDDWH

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	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°	196974	196974	196974
5°	199036	202052	195916
10°	192587	202050	189231
15°	185359	186085	181414
20°	170593	161638	164199
25°	148466	127465	138298
30°	119740	84684	108631
35°	92836	43667	81579
40°	63698	22628	54931
45°	43640	11335	38539
50°	36314	4836	33048
55°	32668	4196	29523
60°	25853	4013	24647
65°	21338	3554	21105
70°	17279	3222	17279
75°	12772	3474	13556
80°	7514	2873	8082
85°	5724	3459	5724



TEST NUMBER: P799713

CATALOG NUMBER: LD6C45D010 EU6459027 6LBMDDWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	342.0	9.4
10°-20°	897.7	24.5
20°-30°	1024.7	28.0
30°-40°	679.5	18.6
40°-50°	327.8	9.0
50°-60°	201.6	5.5
60°-70°	122.0	3.3
70°-80°	51.3	1.4
80°-90°	11.3	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°	2264.4	61.9
0°-40°	2944.0	80.5
0°-60°	3473.4	95.0
0°-90°	3658.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3658.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3593	3593	3593	3593	3593	
5°	3617	3655	3672	3555	3560	340
15°	3266	3266	3279	3140	3196	910
25°	2454	2372	2107	2230	2286	1113
35°	1387	1223	652	1140	1219	858
45°	563	494	146	461	497	459
55°	342	278	44	278	309	300
65°	164	157	27	148	163	165
75°	60	60	16	57	64	64
85°	9	13	6	9	9	12
90°	0	0	0	0	0	



TEST NUMBER: P799713

CATALOG NUMBER: LD6C45D010 EU6459027 6LBMDDWH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	3593.1	3593.1	3593.1	3593.1	3593.1	3593.1	3593.1	3593.1	3593.1
2.5°	3602.3	3607.7	3618.7	3620.5	3615.1	3580.3	3551.1	3562.1	3571.2
5°	3616.9	3627.8	3655.3	3680.8	3671.7	3613.2	3554.7	3552.9	3560.2
7.5°	3563.9	3589.5	3646.1	3710.1	3708.3	3607.7	3521.8	3499.9	3499.9
10°	3459.7	3483.5	3545.6	3631.5	3629.7	3503.6	3408.5	3397.6	3399.4
12.5°	3366.5	3377.5	3408.5	3476.2	3476.2	3351.9	3278.8	3289.7	3304.4
15°	3266.0	3273.3	3266.0	3287.9	3278.8	3176.4	3139.9	3174.6	3196.5
17.5°	3123.4	3127.1	3088.7	3059.5	3024.7	2960.8	2969.9	3021.1	3026.6
20°	2924.2	2948.0	2878.5	2803.6	2770.7	2710.4	2761.5	2818.2	2814.6
22.5°	2704.9	2732.3	2642.8	2518.5	2450.9	2427.1	2518.5	2569.6	2567.8
25°	2454.5	2474.6	2372.3	2198.6	2107.3	2103.6	2229.7	2282.7	2286.4
27.5°	2173.1	2180.4	2065.2	1838.6	1725.3	1752.7	1911.7	1984.8	1993.9
30°	1891.6	1887.9	1769.1	1487.7	1337.8	1412.8	1626.6	1707.0	1716.1
32.5°	1633.9	1622.9	1487.7	1151.4	972.3	1083.8	1365.2	1449.3	1463.9
35°	1387.2	1368.9	1222.7	851.7	652.5	818.8	1140.4	1213.5	1219.0
37.5°	1129.5	1120.3	1005.2	637.8	455.1	621.4	930.3	983.3	977.8
40°	890.1	890.1	795.0	473.4	316.2	462.4	736.5	784.1	767.6
42.5°	698.2	707.3	626.9	349.1	224.8	343.6	583.0	626.9	608.6
45°	562.9	562.9	493.5	259.5	146.2	255.9	460.6	500.8	497.1
47.5°	477.0	469.7	400.3	190.1	80.4	191.9	387.5	436.8	435.0
50°	425.8	414.9	343.6	149.9	56.7	159.0	339.9	385.6	387.5
52.5°	385.6	369.2	308.9	133.4	49.3	138.9	308.9	345.4	345.4
55°	341.8	332.6	277.8	118.8	43.9	124.3	277.8	310.7	308.9
57.5°	288.8	286.9	248.6	107.8	40.2	109.7	248.6	268.7	261.4
60°	235.8	243.1	215.7	96.9	36.6	98.7	212.0	228.5	224.8
62.5°	197.4	206.5	188.2	85.9	31.1	87.7	179.1	195.6	191.9
65°	164.5	171.8	157.2	73.1	27.4	73.1	148.0	162.7	162.7
67.5°	135.2	140.7	129.8	60.3	23.8	60.3	120.6	133.4	135.2
70°	107.8	111.5	102.3	47.5	20.1	49.3	95.0	107.8	107.8
72.5°	84.1	85.9	80.4	38.4	18.3	38.4	73.1	84.1	84.1
75°	60.3	64.0	60.3	29.2	16.4	29.2	56.7	62.1	64.0
77.5°	34.7	43.9	43.9	23.8	12.8	21.9	40.2	42.0	42.0
80°	23.8	27.4	31.1	16.4	9.1	16.4	25.6	27.4	25.6
82.5°	16.4	18.3	18.3	11.0	7.3	11.0	16.4	18.3	16.4
85°	9.1	12.8	12.8	9.1	5.5	7.3	9.1	11.0	9.1
87.5°	5.5	7.3	9.1	7.3	5.5	5.5	5.5	5.5	3.7
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)