

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: P799725

Luminaire Tested: **LD6C45D010 EU6459030 6LBMDDWH**

Issue Date: 4/12/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P799725  
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 EU6459030 6LBMDDWH  
Description: 6 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 6LBMDDW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

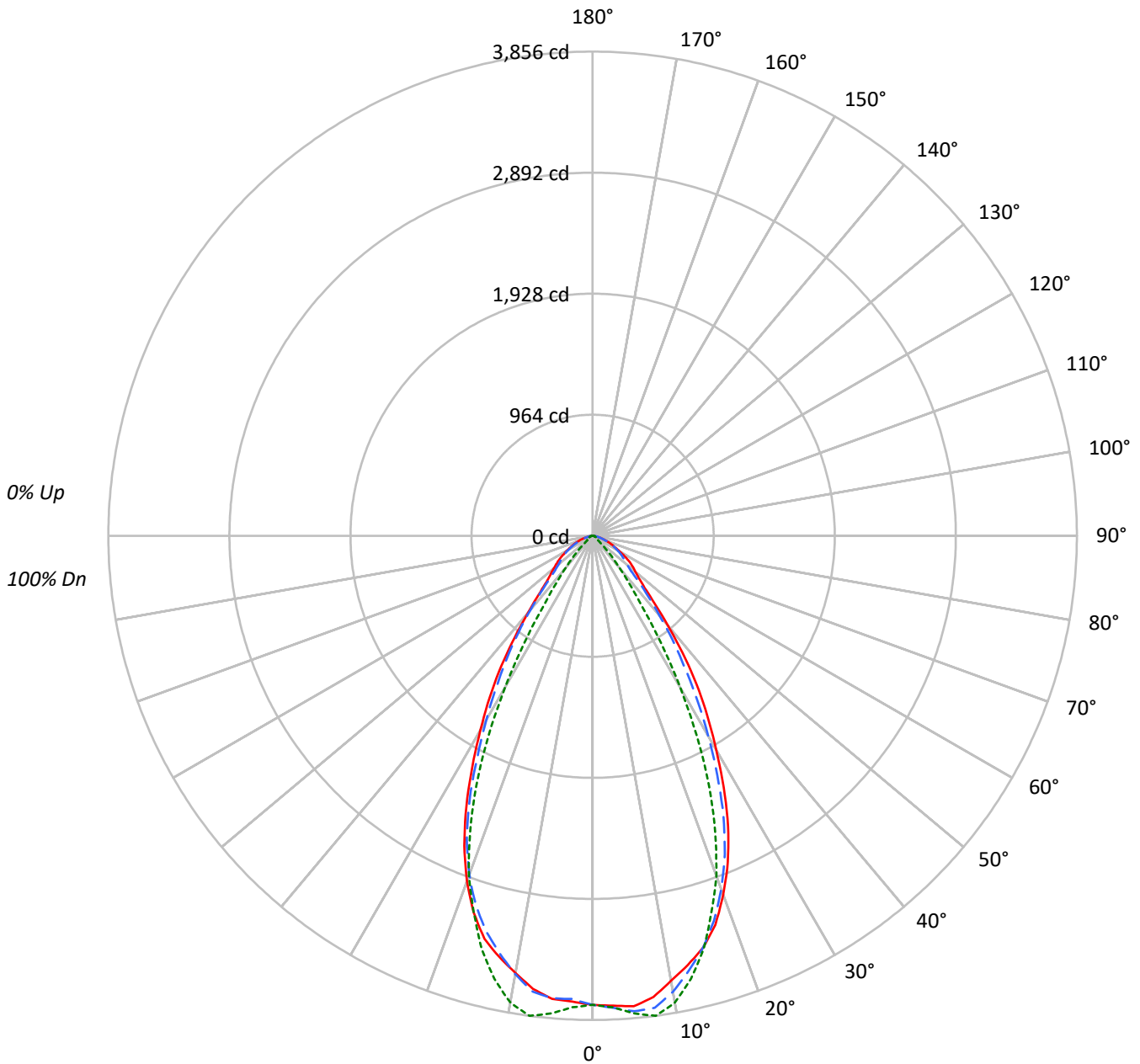
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3804.0 lumens  
Efficiency: N/A  
Efficacy: 76.7 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<sub>in</sub>): 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: P799725

CATALOG NUMBER: LD6C45D010 EU6459030 6LBMDDWH

### Luminous Intensity Polar Plot





TEST NUMBER: P799725

CATALOG NUMBER: LD6C45D010 EU6459030 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	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	112	109	106	104	110	107	105	102	103	101	99	99	98	96	96	94	93	91					91			
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	83					83			
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76					76			
4	94	85	79	74	92	84	78	74	82	77	73	80	76	72	78	74	71	70					70			
5	89	79	73	68	87	78	72	68	76	71	67	75	70	66	73	69	66	64					64			
6	84	74	67	62	82	73	67	62	71	66	62	70	65	61	69	64	61	59					59			
7	79	69	62	58	78	68	62	58	67	61	57	66	61	57	65	60	57	55					55			
8	75	65	58	54	74	64	58	54	63	57	53	62	57	53	61	56	53	51					51			
9	71	61	55	50	70	60	54	50	59	54	50	58	53	50	58	53	50	48					48			
10	68	57	51	47	67	57	51	47	56	51	47	55	50	47	55	50	47	45					45			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	204836	204836	204836
5°	206977	210119	203736
10°	200275	210111	196784
15°	192754	193508	188656
20°	177401	168090	170751
25°	154394	132552	143815
30°	124519	88064	112967
35°	96537	45407	84838
40°	66238	23530	57121
45°	45385	11784	40082
50°	37764	5023	34361
55°	33968	4358	30699
60°	26884	4166	25634
65°	22194	3697	21948
70°	17968	3350	17968
75°	13280	3622	14085
80°	7798	2999	8398
85°	5975	3585	5975



TEST NUMBER: P799725

CATALOG NUMBER: LD6C45D010 EU6459030 6LBMDDWH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	355.7	9.4
10°-20°	933.5	24.5
20°-30°	1065.6	28.0
30°-40°	706.7	18.6
40°-50°	340.8	9.0
50°-60°	209.7	5.5
60°-70°	126.9	3.3
70°-80°	53.4	1.4
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°	2354.8	61.9
0°-40°	3061.5	80.5
0°-60°	3612.0	95.0
0°-90°	3804.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3804.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3736	3736	3736	3736	3736	
5°	3761	3801	3818	3697	3702	353
15°	3396	3396	3410	3265	3324	946
25°	2552	2467	2191	2319	2378	1157
35°	1442	1272	678	1186	1268	892
45°	585	513	152	479	517	477
55°	355	289	46	289	321	312
65°	171	163	28	154	169	172
75°	63	63	17	59	66	67
85°	10	13	6	10	10	12
90°	0	0	0	0	0	



TEST NUMBER: P799725

CATALOG NUMBER: LD6C45D010 EU6459030 6LBMDDWH

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	3736.5	3736.5	3736.5	3736.5	3736.5	3736.5	3736.5	3736.5	3736.5
2.5°	3746.0	3751.7	3763.1	3765.0	3759.3	3723.2	3692.8	3704.2	3713.7
5°	3761.2	3772.6	3801.2	3827.8	3818.3	3757.4	3696.6	3694.7	3702.3
7.5°	3706.1	3732.7	3791.6	3858.2	3856.3	3751.7	3662.4	3639.6	3639.6
10°	3597.8	3622.5	3687.1	3776.4	3774.5	3643.4	3544.6	3533.2	3535.1
12.5°	3500.9	3512.3	3544.6	3614.9	3614.9	3485.7	3409.6	3421.0	3436.2
15°	3396.3	3403.9	3396.3	3419.1	3409.6	3303.2	3265.2	3301.3	3324.1
17.5°	3248.1	3251.9	3212.0	3181.6	3145.5	3078.9	3088.4	3141.7	3147.4
20°	3040.9	3065.6	2993.4	2915.5	2881.3	2818.6	2871.8	2930.7	2926.9
22.5°	2812.9	2841.4	2748.2	2619.0	2548.7	2524.0	2619.0	2672.2	2670.3
25°	2552.5	2573.4	2466.9	2286.4	2191.4	2187.6	2318.7	2373.8	2377.6
27.5°	2259.8	2267.4	2147.7	1912.0	1794.1	1822.7	1988.0	2064.0	2073.5
30°	1967.1	1963.3	1839.8	1547.1	1391.2	1469.1	1691.5	1775.1	1784.6
32.5°	1699.1	1687.7	1547.1	1197.4	1011.1	1127.0	1419.7	1507.2	1522.4
35°	1442.5	1423.5	1271.5	885.7	678.5	851.5	1186.0	1262.0	1267.7
37.5°	1174.6	1165.1	1045.3	663.3	473.2	646.2	967.4	1022.5	1016.8
40°	925.6	925.6	826.8	492.2	328.8	480.8	765.9	815.3	798.2
42.5°	726.0	735.5	651.9	363.0	233.8	357.3	606.3	651.9	632.9
45°	585.4	585.4	513.2	269.9	152.0	266.1	478.9	520.8	517.0
47.5°	496.1	488.4	416.2	197.7	83.6	199.6	402.9	454.2	452.3
50°	442.8	431.4	357.3	155.8	58.9	165.4	353.5	401.0	402.9
52.5°	401.0	383.9	321.2	138.7	51.3	144.4	321.2	359.2	359.2
55°	355.4	345.9	288.9	123.5	45.6	129.2	288.9	323.1	321.2
57.5°	300.3	298.4	258.5	112.1	41.8	114.0	258.5	279.4	271.8
60°	245.2	252.8	224.3	100.7	38.0	102.6	220.5	237.6	233.8
62.5°	205.3	214.8	195.8	89.3	32.3	91.2	186.3	203.4	199.6
65°	171.1	178.7	163.4	76.0	28.5	76.0	153.9	169.2	169.2
67.5°	140.6	146.3	134.9	62.7	24.7	62.7	125.4	138.7	140.6
70°	112.1	115.9	106.4	49.4	20.9	51.3	98.8	112.1	112.1
72.5°	87.4	89.3	83.6	39.9	19.0	39.9	76.0	87.4	87.4
75°	62.7	66.5	62.7	30.4	17.1	30.4	58.9	64.6	66.5
77.5°	36.1	45.6	45.6	24.7	13.3	22.8	41.8	43.7	43.7
80°	24.7	28.5	32.3	17.1	9.5	17.1	26.6	28.5	26.6
82.5°	17.1	19.0	19.0	11.4	7.6	11.4	17.1	19.0	17.1
85°	9.5	13.3	13.3	9.5	5.7	7.6	9.5	11.4	9.5
87.5°	5.7	7.6	9.5	7.6	5.7	5.7	5.7	5.7	3.8
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)