

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: P799740

Luminaire Tested: **LD6C45D010 EU6459035 6LBMDDWWH**

Issue Date: 4/12/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P799740  
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 EU6459035 6LBMDDWWH  
Description: 6 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS  
AND 6LBMDDW TRIM WITH WH FINISH  
Light Source: -  
Ballast/Driver: -

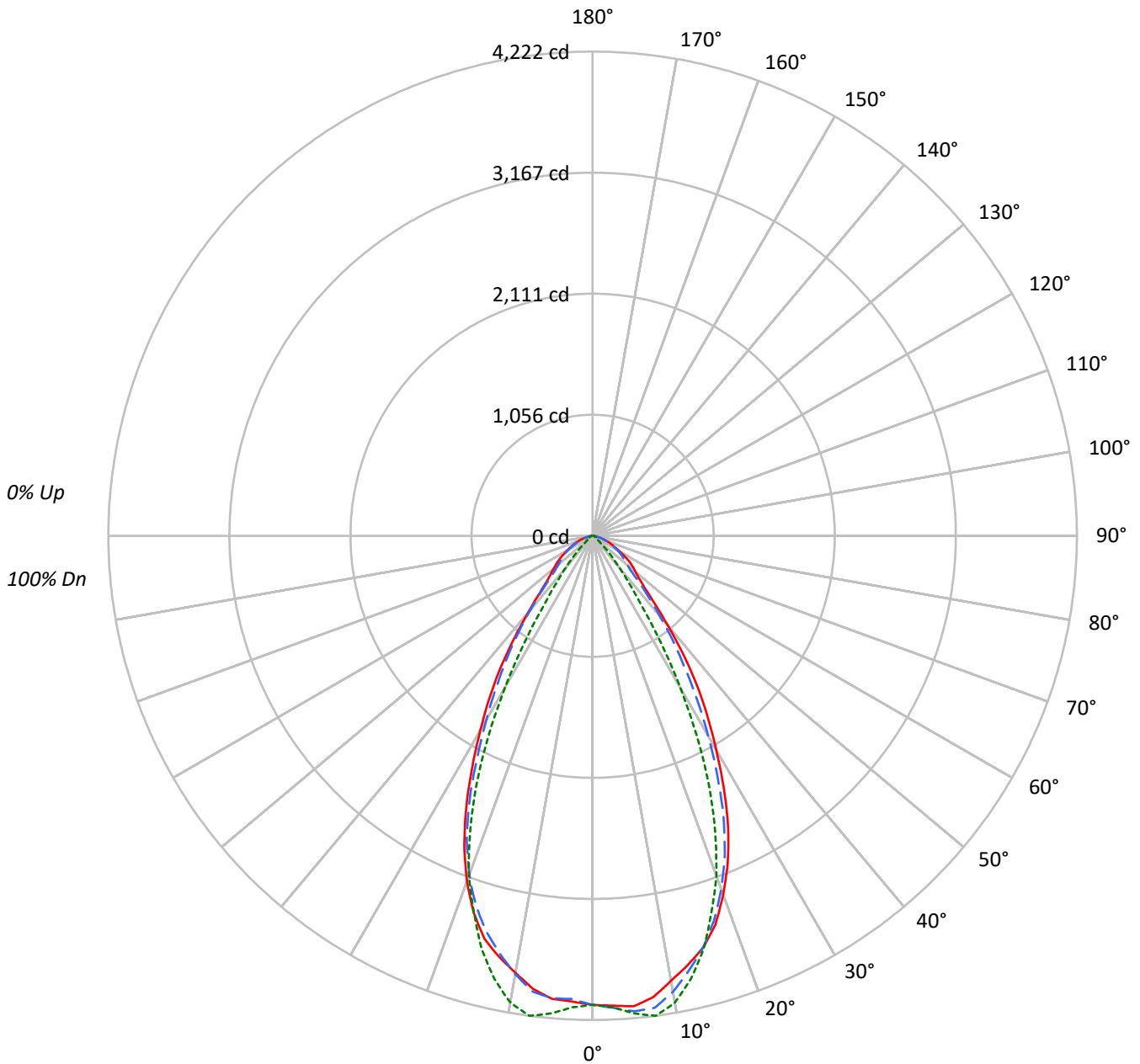
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4165.0 lumens  
Efficiency: N/A  
Efficacy: 84.0 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

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### Luminous Intensity Polar Plot





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**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			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°	224275	224275	224275
5°	226623	230057	223073
10°	219279	230050	215455
15°	211045	211874	206562
20°	194238	184040	186951
25°	169044	145127	157467
30°	136337	96420	123690
35°	105698	49717	92889
40°	72522	25763	62546
45°	49687	12908	43881
50°	41355	5501	37628
55°	37189	4769	33614
60°	29427	4561	28068
65°	24296	4047	24023
70°	19683	3670	19683
75°	14551	3961	15420
80°	8555	3283	9187
85°	6542	3900	6542



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	389.4	9.4
10°-20°	1022.1	24.5
20°-30°	1166.7	28.0
30°-40°	773.7	18.6
40°-50°	373.2	9.0
50°-60°	229.6	5.5
60°-70°	138.9	3.3
70°-80°	58.4	1.4
80°-90°	12.9	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°	2578.3	61.9
0°-40°	3352.0	80.5
0°-60°	3954.8	95.0
0°-90°	4165.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4165.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	4091	4091	4091	4091	4091	
5°	4118	4162	4181	4047	4054	387
15°	3719	3719	3733	3575	3640	1036
25°	2795	2701	2399	2539	2603	1267
35°	1579	1392	743	1298	1388	977
45°	641	562	166	524	566	523
55°	389	316	50	316	352	342
65°	187	179	31	169	185	188
75°	69	69	19	64	73	73
85°	10	15	6	10	10	13
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	4091.1	4091.1	4091.1	4091.1	4091.1	4091.1	4091.1	4091.1	4091.1
2.5°	4101.5	4107.8	4120.3	4122.3	4116.1	4076.6	4043.3	4055.8	4066.2
5°	4118.2	4130.7	4161.9	4191.0	4180.6	4114.0	4047.4	4045.3	4053.7
7.5°	4057.8	4087.0	4151.5	4224.3	4222.2	4107.8	4010.0	3985.0	3985.0
10°	3939.2	3966.3	4037.0	4134.8	4132.7	3989.2	3881.0	3868.5	3870.5
12.5°	3833.1	3845.6	3881.0	3957.9	3957.9	3816.4	3733.2	3745.7	3762.3
15°	3718.6	3727.0	3718.6	3743.6	3733.2	3616.7	3575.1	3614.6	3639.6
17.5°	3556.3	3560.5	3516.8	3483.5	3444.0	3371.1	3381.5	3439.8	3446.0
20°	3329.5	3356.6	3277.5	3192.2	3154.7	3086.0	3144.3	3208.8	3204.6
22.5°	3079.8	3111.0	3009.0	2867.5	2790.5	2763.5	2867.5	2925.8	2923.7
25°	2794.7	2817.6	2701.1	2503.4	2399.3	2395.2	2538.7	2599.1	2603.3
27.5°	2474.2	2482.6	2351.5	2093.4	1964.4	1995.6	2176.7	2259.9	2270.3
30°	2153.8	2149.6	2014.4	1693.9	1523.2	1608.6	1852.0	1943.6	1954.0
32.5°	1860.4	1847.9	1693.9	1311.0	1107.1	1234.0	1554.5	1650.2	1666.8
35°	1579.4	1558.6	1392.1	969.7	742.9	932.3	1298.5	1381.7	1388.0
37.5°	1286.0	1275.6	1144.5	726.2	518.2	707.5	1059.2	1119.5	1113.3
40°	1013.4	1013.4	905.2	539.0	360.0	526.5	838.6	892.7	874.0
42.5°	794.9	805.3	713.8	397.5	256.0	391.2	663.8	713.8	693.0
45°	640.9	640.9	561.9	295.5	166.5	291.3	524.4	570.2	566.0
47.5°	543.1	534.8	455.7	216.4	91.6	218.5	441.2	497.3	495.3
50°	484.9	472.4	391.2	170.6	64.5	181.0	387.1	439.1	441.2
52.5°	439.1	420.4	351.7	151.9	56.2	158.2	351.7	393.3	393.3
55°	389.1	378.7	316.3	135.3	49.9	141.5	316.3	353.8	351.7
57.5°	328.8	326.7	283.0	122.8	45.8	124.9	283.0	305.9	297.6
60°	268.4	276.8	245.6	110.3	41.6	112.4	241.4	260.1	256.0
62.5°	224.7	235.1	214.3	97.8	35.4	99.9	203.9	222.7	218.5
65°	187.3	195.6	179.0	83.2	31.2	83.2	168.6	185.2	185.2
67.5°	154.0	160.2	147.7	68.7	27.1	68.7	137.3	151.9	154.0
70°	122.8	126.9	116.5	54.1	22.9	56.2	108.2	122.8	122.8
72.5°	95.7	97.8	91.6	43.7	20.8	43.7	83.2	95.7	95.7
75°	68.7	72.8	68.7	33.3	18.7	33.3	64.5	70.8	72.8
77.5°	39.5	49.9	49.9	27.1	14.6	25.0	45.8	47.9	47.9
80°	27.1	31.2	35.4	18.7	10.4	18.7	29.1	31.2	29.1
82.5°	18.7	20.8	20.8	12.5	8.3	12.5	18.7	20.8	18.7
85°	10.4	14.6	14.6	10.4	6.2	8.3	10.4	12.5	10.4
87.5°	6.2	8.3	10.4	8.3	6.2	6.2	6.2	6.2	4.2
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)