

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: P799762

Luminaire Tested: **LD6C45D010 EU6459050 6LBMDDWLI**

Issue Date: 4/12/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P799762  
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 EU6459050 6LBMDDWLI  
Description: 6 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS  
AND 6LBMDDW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

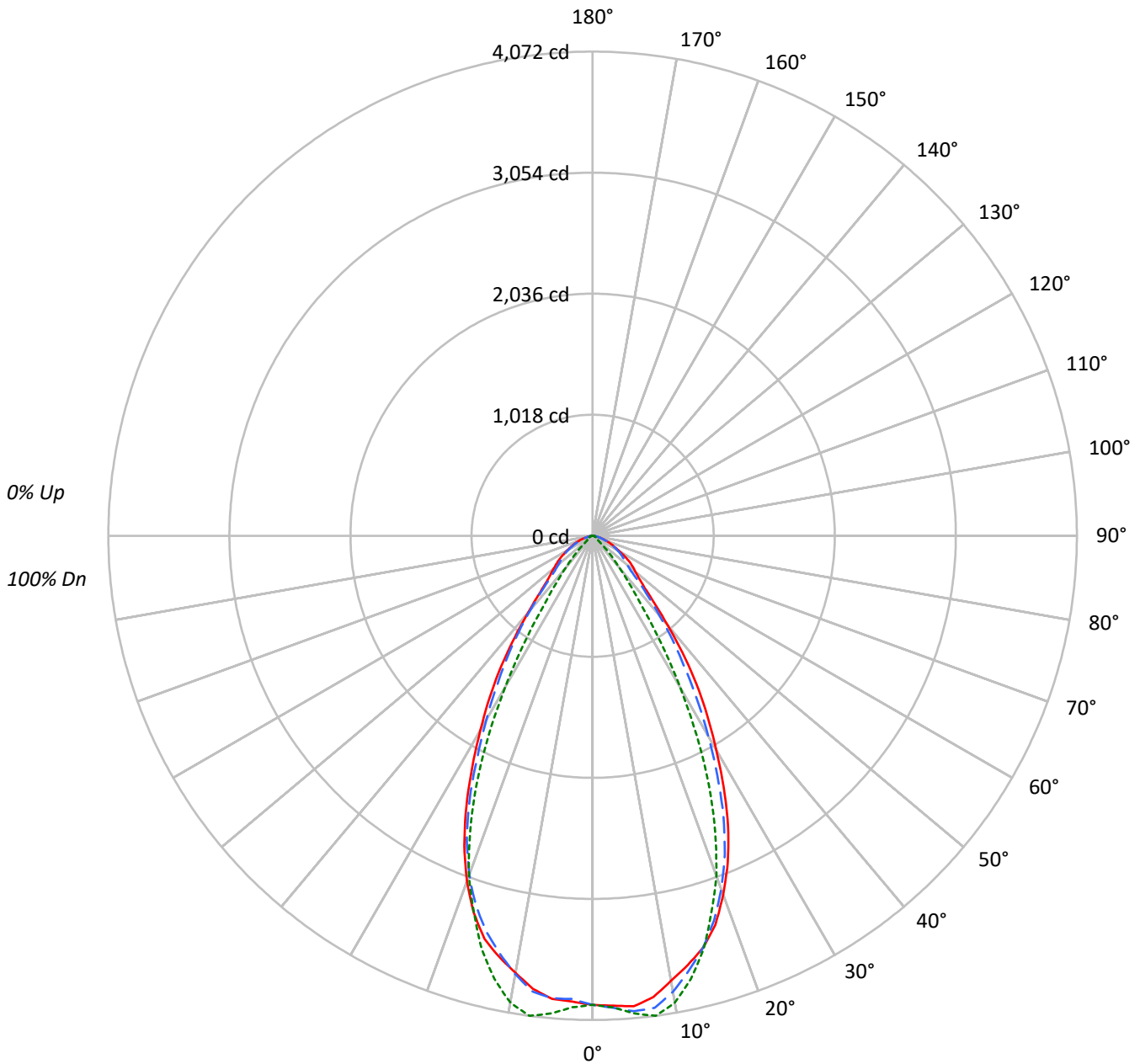
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4017.0 lumens  
Efficiency: N/A  
Efficacy: 81.0 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			
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°	216309	216309	216309
5°	218566	221885	215144
10°	211486	221879	207801
15°	203548	204349	199218
20°	187336	177500	180312
25°	163038	139974	151872
30°	131489	92995	119297
35°	101944	47950	89590
40°	69945	24847	60320
45°	47927	12451	42322
50°	39879	5305	36289
55°	35870	4607	32419
60°	28386	4397	27070
65°	23427	3904	23167
70°	18978	3542	18978
75°	14022	3834	14869
80°	8240	3157	8871
85°	6290	3774	6290



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	375.6	9.4
10°-20°	985.8	24.5
20°-30°	1125.2	28.0
30°-40°	746.2	18.6
40°-50°	359.9	9.0
50°-60°	221.4	5.5
60°-70°	134.0	3.3
70°-80°	56.4	1.4
80°-90°	12.4	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°	2486.7	61.9
0°-40°	3232.9	80.5
0°-60°	3814.2	95.0
0°-90°	4017.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4017.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3946	3946	3946	3946	3946	
5°	3972	4014	4032	3904	3910	373
15°	3586	3586	3601	3448	3510	999
25°	2695	2605	2314	2448	2511	1222
35°	1523	1343	716	1252	1339	942
45°	618	542	161	506	546	504
55°	375	305	48	305	339	330
65°	181	173	30	163	179	181
75°	66	66	18	62	70	71
85°	10	14	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°	3945.8	3945.8	3945.8	3945.8	3945.8	3945.8	3945.8	3945.8	3945.8
2.5°	3955.8	3961.8	3973.9	3975.9	3969.8	3931.7	3899.6	3911.6	3921.7
5°	3971.8	3983.9	4014.0	4042.1	4032.1	3967.8	3903.6	3901.6	3909.6
7.5°	3913.6	3941.7	4004.0	4074.2	4072.2	3961.8	3867.5	3843.4	3843.4
10°	3799.2	3825.3	3893.6	3987.9	3985.9	3847.4	3743.0	3731.0	3733.0
12.5°	3696.9	3708.9	3743.0	3817.3	3817.3	3680.8	3600.6	3612.6	3628.6
15°	3586.5	3594.5	3586.5	3610.6	3600.6	3488.2	3448.0	3486.2	3510.2
17.5°	3430.0	3434.0	3391.8	3359.7	3321.6	3251.3	3261.4	3317.6	3323.6
20°	3211.2	3237.3	3161.0	3078.7	3042.6	2976.4	3032.6	3094.8	3090.8
22.5°	2970.4	3000.5	2902.1	2765.6	2691.4	2665.3	2765.6	2821.8	2819.8
25°	2695.4	2717.5	2605.1	2414.4	2314.1	2310.1	2448.5	2506.7	2510.8
27.5°	2386.3	2394.3	2267.9	2019.0	1894.6	1924.7	2099.3	2179.6	2189.6
30°	2077.2	2073.2	1942.8	1633.7	1469.1	1551.4	1786.2	1874.5	1884.6
32.5°	1794.3	1782.2	1633.7	1264.4	1067.7	1190.1	1499.2	1591.5	1607.6
35°	1523.3	1503.2	1342.7	935.3	716.5	899.1	1252.4	1332.6	1338.7
37.5°	1240.3	1230.3	1103.8	700.4	499.7	682.4	1021.6	1079.8	1073.7
40°	977.4	977.4	873.0	519.8	347.2	507.8	808.8	861.0	842.9
42.5°	766.7	776.7	688.4	383.3	246.9	377.3	640.2	688.4	668.3
45°	618.2	618.2	541.9	285.0	160.6	281.0	505.8	549.9	545.9
47.5°	523.8	515.8	439.5	208.7	88.3	210.7	425.5	479.7	477.7
50°	467.6	455.6	377.3	164.6	62.2	174.6	373.3	423.5	425.5
52.5°	423.5	405.4	339.2	146.5	54.2	152.5	339.2	379.3	379.3
55°	375.3	365.3	305.1	130.5	48.2	136.5	305.1	341.2	339.2
57.5°	317.1	315.1	273.0	118.4	44.2	120.4	273.0	295.0	287.0
60°	258.9	266.9	236.8	106.4	40.1	108.4	232.8	250.9	246.9
62.5°	216.8	226.8	206.7	94.3	34.1	96.3	196.7	214.7	210.7
65°	180.6	188.7	172.6	80.3	30.1	80.3	162.6	178.6	178.6
67.5°	148.5	154.5	142.5	66.2	26.1	66.2	132.5	146.5	148.5
70°	118.4	122.4	112.4	52.2	22.1	54.2	104.4	118.4	118.4
72.5°	92.3	94.3	88.3	42.1	20.1	42.1	80.3	92.3	92.3
75°	66.2	70.2	66.2	32.1	18.1	32.1	62.2	68.2	70.2
77.5°	38.1	48.2	48.2	26.1	14.0	24.1	44.2	46.2	46.2
80°	26.1	30.1	34.1	18.1	10.0	18.1	28.1	30.1	28.1
82.5°	18.1	20.1	20.1	12.0	8.0	12.0	18.1	20.1	18.1
85°	10.0	14.0	14.0	10.0	6.0	8.0	10.0	12.0	10.0
87.5°	6.0	8.0	10.0	8.0	6.0	6.0	6.0	6.0	4.0
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)