

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: P799840

Luminaire Tested: **LD6C55D010 EU6559027 6LBMDSWLI**

Issue Date: 4/12/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P799840  
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: LD6C55D010 EU6559027 6LBMDSWLI  
Description: 6 INCH 5500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS  
AND 6LBMDSW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

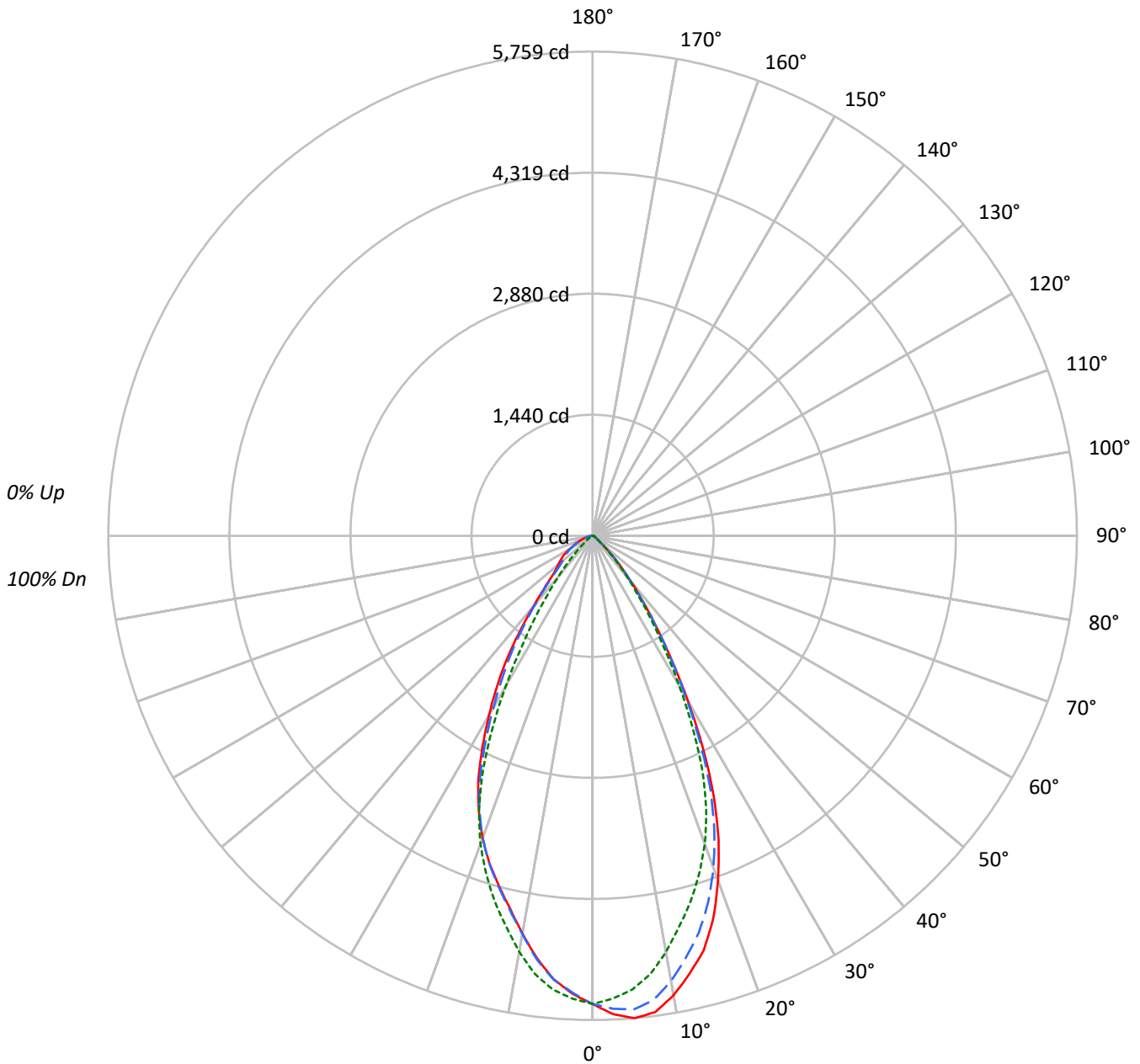
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4795.0 lumens  
Efficiency: N/A  
Efficacy: 75.0 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): 63.9  
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	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	113	110	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92					92			
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85					85			
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78					78			
4	96	88	82	77	94	87	81	77	84	80	76	82	78	75	80	77	74	73					73			
5	91	82	76	71	89	81	75	71	79	74	70	77	73	70	76	72	69	67					67			
6	86	77	70	66	84	76	70	66	74	69	65	73	68	65	71	67	64	63					63			
7	82	72	66	61	80	71	65	61	70	65	61	69	64	60	68	63	60	59					59			
8	78	68	61	57	76	67	61	57	66	61	57	65	60	57	64	60	56	55					55			
9	74	64	58	54	73	63	58	54	62	57	53	61	57	53	61	56	53	52					52			
10	70	60	54	50	69	60	54	50	59	54	50	58	53	50	58	53	50	49					49			

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

	0°	90°	180°
0°	305310	305310	305310
5°	316921	298150	291404
10°	308817	279660	267358
15°	289627	255541	244491
20°	254262	227491	223144
25°	205639	186894	194594
30°	142965	130191	155739
35°	88111	79752	117537
40°	49865	44705	78061
45°	24212	23095	53277
50°	9219	9219	45286
55°	5056	5974	41795
60°	3684	4736	34241
65°	3113	4047	28045
70°	2693	3462	23113
75°	2542	3558	19846
80°	1515	3031	14427
85°	1510	6038	13586



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	509.9	10.6
10°-20°	1281.5	26.7
20°-30°	1442.6	30.1
30°-40°	893.3	18.6
40°-50°	355.7	7.4
50°-60°	161.9	3.4
60°-70°	93.1	1.9
70°-80°	44.2	0.9
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°	3233.9	67.4
0°-40°	4127.1	86.1
0°-60°	4644.8	96.9
0°-90°	4795.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4795.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	5569	5569	5569	5569	5569	
5°	5759	5653	5418	5300	5295	542
15°	5103	4882	4503	4320	4308	1412
25°	3400	3308	3090	3167	3217	1528
35°	1317	1309	1192	1660	1756	846
45°	312	312	298	649	687	265
55°	53	50	62	384	437	52
65°	24	22	31	214	216	23
75°	12	12	17	91	94	12
85°	2	2	10	22	22	2
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°	5569.3	5569.3	5569.3	5569.3	5569.3	5569.3	5569.3	5569.3	5569.3
2.5°	5696.7	5643.8	5631.8	5586.1	5509.3	5466.0	5439.6	5420.4	5454.0
5°	5759.1	5701.5	5653.4	5559.7	5418.0	5338.7	5300.2	5269.0	5295.4
7.5°	5713.5	5631.8	5566.9	5437.2	5257.0	5134.5	5081.6	5045.6	5069.6
10°	5547.7	5449.2	5374.7	5220.9	5023.9	4877.4	4812.5	4778.9	4802.9
12.5°	5331.5	5249.8	5136.9	4968.7	4757.2	4603.5	4555.4	4529.0	4538.6
15°	5103.2	5007.1	4882.2	4714.0	4502.6	4348.8	4320.0	4303.1	4307.9
17.5°	4771.7	4678.0	4569.8	4406.5	4211.8	4086.9	4086.9	4074.9	4082.1
20°	4358.4	4307.9	4202.2	4065.3	3899.5	3786.6	3822.6	3810.6	3825.0
22.5°	3911.5	3873.1	3781.8	3668.8	3529.5	3440.6	3519.9	3517.5	3536.7
25°	3399.7	3370.9	3308.4	3212.3	3089.8	3034.5	3166.7	3166.7	3217.1
27.5°	2835.1	2806.3	2763.0	2681.4	2580.4	2563.6	2758.2	2782.3	2837.5
30°	2258.5	2239.3	2215.2	2140.8	2056.7	2087.9	2357.0	2397.8	2460.3
32.5°	1744.3	1732.3	1725.1	1657.8	1583.3	1686.7	1994.2	2047.1	2109.5
35°	1316.6	1290.2	1309.4	1259.0	1191.7	1321.5	1660.2	1705.9	1756.3
37.5°	970.7	951.4	968.3	932.2	872.2	1013.9	1333.5	1362.3	1395.9
40°	696.8	679.9	694.4	672.7	624.7	756.8	1045.2	1076.4	1090.8
42.5°	494.9	466.1	480.5	463.7	439.7	569.4	821.7	850.5	855.3
45°	312.3	302.7	312.3	302.7	297.9	422.9	648.7	675.1	687.2
47.5°	189.8	177.8	177.8	173.0	177.8	312.3	535.8	574.2	593.5
50°	108.1	103.3	100.9	98.5	108.1	245.1	463.7	507.0	531.0
52.5°	72.1	69.7	69.7	67.3	79.3	206.6	418.1	456.5	480.5
55°	52.9	50.5	50.5	50.5	62.5	177.8	384.4	415.7	437.3
57.5°	40.8	40.8	40.8	38.4	52.9	151.4	343.6	360.4	377.2
60°	33.6	31.2	31.2	31.2	43.2	129.7	295.5	302.7	312.3
62.5°	26.4	26.4	26.4	26.4	36.0	115.3	254.7	254.7	259.5
65°	24.0	21.6	21.6	21.6	31.2	100.9	213.8	211.4	216.2
67.5°	19.2	19.2	19.2	19.2	26.4	86.5	175.4	173.0	177.8
70°	16.8	16.8	16.8	16.8	21.6	72.1	141.8	139.4	144.2
72.5°	14.4	14.4	14.4	14.4	19.2	60.1	112.9	112.9	115.3
75°	12.0	12.0	12.0	12.0	16.8	45.7	91.3	91.3	93.7
77.5°	9.6	9.6	9.6	9.6	12.0	36.0	69.7	67.3	67.3
80°	4.8	7.2	7.2	7.2	9.6	26.4	50.5	45.7	45.7
82.5°	2.4	4.8	4.8	4.8	9.6	19.2	33.6	31.2	31.2
85°	2.4	2.4	2.4	7.2	9.6	14.4	21.6	21.6	21.6
87.5°	0.0	2.4	4.8	9.6	12.0	12.0	14.4	12.0	12.0
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)