

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: P800042

Luminaire Tested: **LD6C70D010 EU6709035 6LBMDSWGPH**

Issue Date: 4/12/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P800042  
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: LD6C70D010 EU6709035 6LBMDSWGPH  
Description: 6 INCH 7000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS  
AND 6LBMDSW TRIM WITH GPH FINISH  
Light Source: -  
Ballast/Driver: -

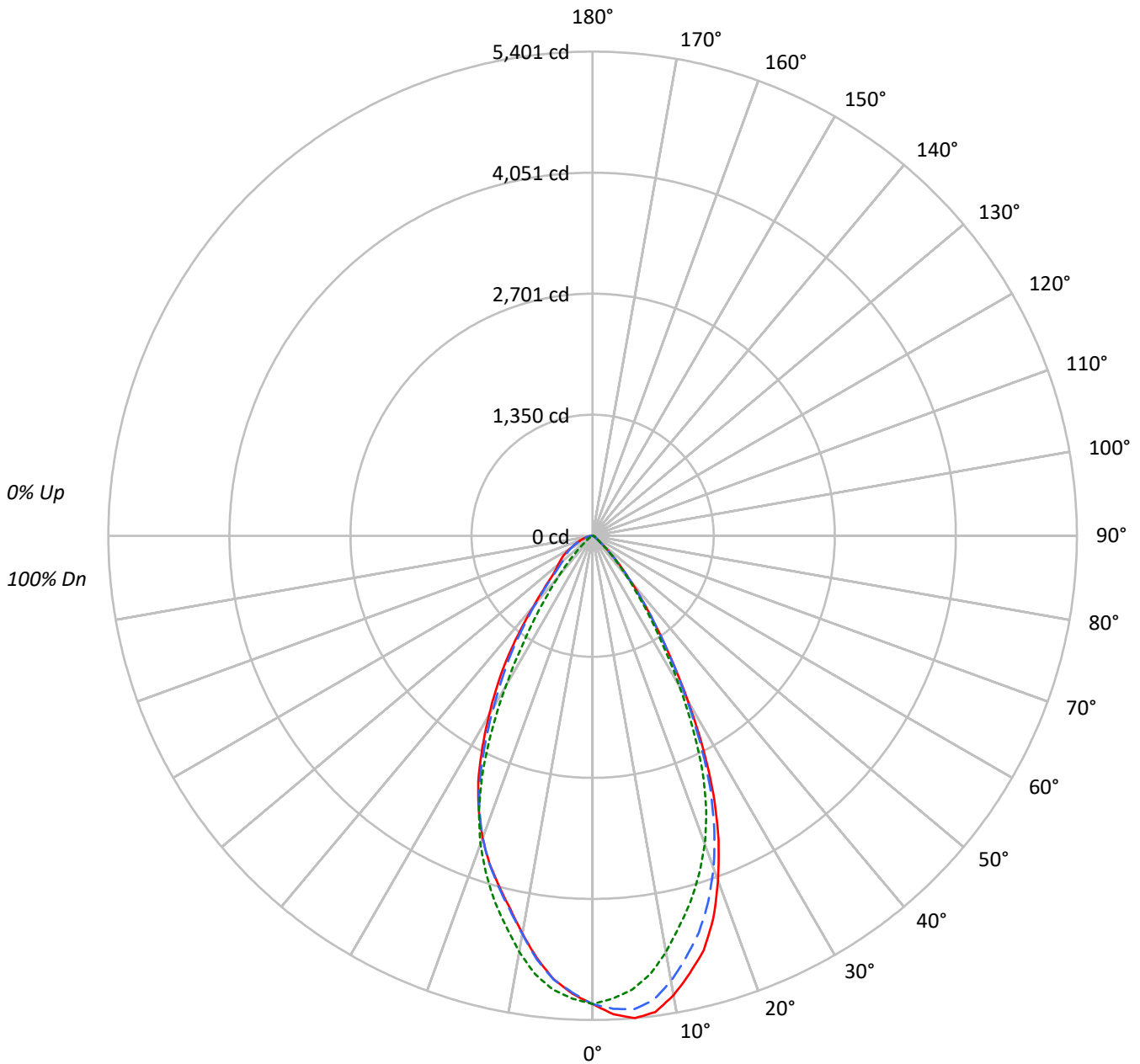
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4497.0 lumens  
Efficiency: N/A  
Efficacy: 57.7 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): 78  
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	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°	286337	286337	286337
5°	297226	279616	273293
10°	289624	262281	250741
15°	271630	239655	229298
20°	238458	213349	209277
25°	192864	175280	182502
30°	134078	122095	146060
35°	82637	74793	110236
40°	46766	41929	73209
45°	22708	21661	49966
50°	8648	8648	42472
55°	4741	5601	39196
60°	3454	4451	32114
65°	2919	3801	26306
70°	2532	3254	21670
75°	2393	3347	18618
80°	1421	2841	13512
85°	1447	5661	12769



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	478.2	10.6
10°-20°	1201.8	26.7
20°-30°	1352.9	30.1
30°-40°	837.7	18.6
40°-50°	333.6	7.4
50°-60°	151.9	3.4
60°-70°	87.3	1.9
70°-80°	41.5	0.9
80°-90°	12.1	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°	3032.9	67.4
0°-40°	3870.6	86.1
0°-60°	4356.1	96.9
0°-90°	4497.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4497.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	5223	5223	5223	5223	5223	
5°	5401	5302	5081	4971	4966	509
15°	4786	4579	4223	4052	4040	1324
25°	3188	3103	2898	2970	3017	1433
35°	1235	1228	1118	1557	1647	794
45°	293	293	279	608	644	248
55°	50	47	59	360	410	49
65°	22	20	29	200	203	22
75°	11	11	16	86	88	12
85°	2	2	9	20	20	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°	5223.2	5223.2	5223.2	5223.2	5223.2	5223.2	5223.2	5223.2	5223.2
2.5°	5342.6	5293.1	5281.8	5239.0	5166.9	5126.3	5101.5	5083.5	5115.0
5°	5401.2	5347.1	5302.1	5214.2	5081.2	5006.9	4970.8	4941.5	4966.3
7.5°	5358.4	5281.8	5221.0	5099.3	4930.3	4815.4	4765.8	4732.0	4754.5
10°	5202.9	5110.5	5040.7	4896.5	4711.7	4574.3	4513.4	4481.9	4504.4
12.5°	5000.1	4923.5	4817.6	4659.9	4461.6	4317.4	4272.3	4247.5	4256.5
15°	4786.1	4695.9	4578.8	4421.0	4222.7	4078.5	4051.5	4035.7	4040.2
17.5°	4475.1	4387.2	4285.8	4132.6	3950.1	3832.9	3832.9	3821.6	3828.4
20°	4087.5	4040.2	3941.1	3812.6	3657.1	3551.2	3585.0	3573.8	3587.3
22.5°	3668.4	3632.4	3546.7	3440.8	3310.1	3226.8	3301.1	3298.9	3316.9
25°	3188.5	3161.4	3102.8	3012.7	2897.8	2845.9	2969.9	2969.9	3017.2
27.5°	2658.9	2631.9	2591.3	2514.7	2420.1	2404.3	2586.8	2609.4	2661.2
30°	2118.1	2100.1	2077.6	2007.7	1928.8	1958.1	2210.5	2248.8	2307.4
32.5°	1635.9	1624.6	1617.9	1554.8	1484.9	1581.8	1870.3	1919.8	1978.4
35°	1234.8	1210.0	1228.1	1180.7	1117.6	1239.3	1557.0	1599.9	1647.2
37.5°	910.3	892.3	908.1	874.3	818.0	950.9	1250.6	1277.6	1309.2
40°	653.5	637.7	651.2	630.9	585.9	709.8	980.2	1009.5	1023.0
42.5°	464.2	437.1	450.7	434.9	412.4	534.0	770.6	797.7	802.2
45°	292.9	283.9	292.9	283.9	279.4	396.6	608.4	633.2	644.5
47.5°	178.0	166.7	166.7	162.2	166.7	292.9	502.5	538.5	556.6
50°	101.4	96.9	94.6	92.4	101.4	229.8	434.9	475.5	498.0
52.5°	67.6	65.3	65.3	63.1	74.4	193.8	392.1	428.1	450.7
55°	49.6	47.3	47.3	47.3	58.6	166.7	360.5	389.8	410.1
57.5°	38.3	38.3	38.3	36.1	49.6	142.0	322.2	338.0	353.8
60°	31.5	29.3	29.3	29.3	40.6	121.7	277.2	283.9	292.9
62.5°	24.8	24.8	24.8	24.8	33.8	108.2	238.9	238.9	243.4
65°	22.5	20.3	20.3	20.3	29.3	94.6	200.5	198.3	202.8
67.5°	18.0	18.0	18.0	18.0	24.8	81.1	164.5	162.2	166.7
70°	15.8	15.8	15.8	15.8	20.3	67.6	132.9	130.7	135.2
72.5°	13.5	13.5	13.5	13.5	18.0	56.3	105.9	105.9	108.2
75°	11.3	11.3	11.3	11.3	15.8	42.8	85.6	85.6	87.9
77.5°	9.0	9.0	9.0	9.0	11.3	33.8	65.3	63.1	63.1
80°	4.5	6.8	6.8	6.8	9.0	24.8	47.3	42.8	42.8
82.5°	2.3	4.5	4.5	4.5	9.0	18.0	31.5	29.3	29.3
85°	2.3	2.3	2.3	6.8	9.0	13.5	20.3	20.3	20.3
87.5°	0.0	2.3	4.5	9.0	11.3	11.3	13.5	11.3	11.3
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)