

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: P800067

Luminaire Tested: **LD6C70D010 EU6709050 6LBMDSWH**

Issue Date: 4/12/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P800067  
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 EU6709050 6LBMDSWH  
Description: 6 INCH 7000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS  
AND 6LBMDSW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

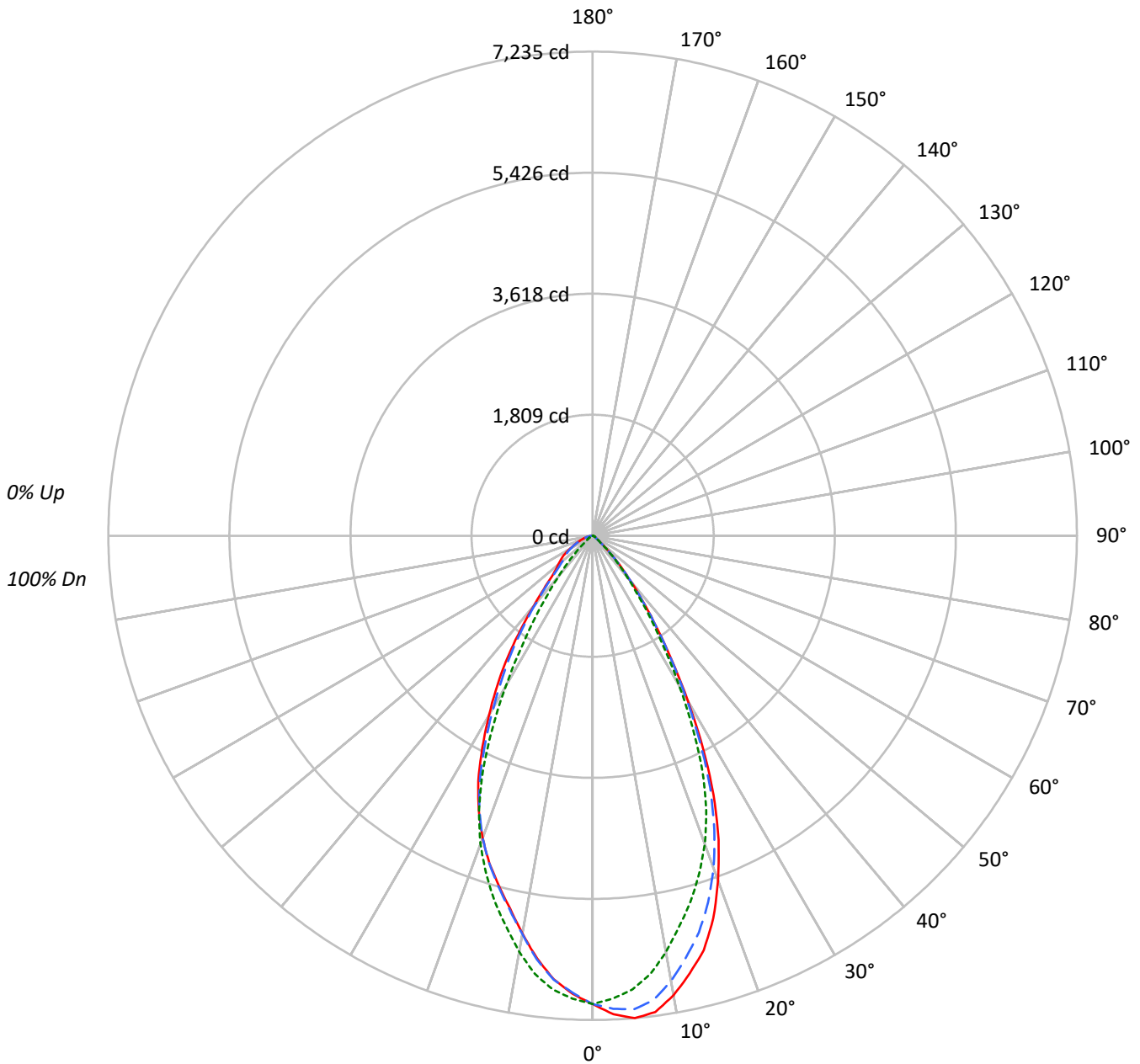
Lumens per Lamp: N/A  
Luminaire Lumens: 6024.0 lumens  
Efficiency: N/A  
Efficacy: 77.2 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 0.83 / 0.83  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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	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°	383566	383566	383566
5°	398155	374564	366095
10°	387969	351341	335882
15°	363861	321035	307158
20°	319432	285800	280339
25°	258348	234794	244472
30°	179610	163557	195657
35°	110697	100197	147666
40°	62646	56162	98069
45°	30422	29019	66929
50°	11582	11582	56894
55°	6346	7503	52509
60°	4638	5953	43023
65°	3917	5085	35244
70°	3382	4360	29027
75°	3198	4469	24930
80°	1894	3820	18121
85°	1887	7611	17109



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	640.5	10.6
10°-20°	1609.9	26.7
20°-30°	1812.3	30.1
30°-40°	1122.2	18.6
40°-50°	446.9	7.4
50°-60°	203.5	3.4
60°-70°	117.0	1.9
70°-80°	55.5	0.9
80°-90°	16.2	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°	4062.7	67.4
0°-40°	5185.0	86.1
0°-60°	5835.3	96.9
0°-90°	6024.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6024.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	6997	6997	6997	6997	6997	
5°	7235	7102	6807	6659	6653	681
15°	6411	6134	5657	5427	5412	1774
25°	4271	4156	3882	3978	4042	1920
35°	1654	1645	1497	2086	2206	1063
45°	392	392	374	815	863	332
55°	66	63	78	483	549	66
65°	30	27	39	269	272	29
75°	15	15	21	115	118	16
85°	3	3	12	27	27	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°	6996.8	6996.8	6996.8	6996.8	6996.8	6996.8	6996.8	6996.8	6996.8
2.5°	7156.8	7090.4	7075.3	7017.9	6921.3	6867.0	6833.8	6809.7	6851.9
5°	7235.3	7162.8	7102.4	6984.7	6806.6	6707.0	6658.7	6619.5	6652.7
7.5°	7177.9	7075.3	6993.8	6830.8	6604.4	6450.5	6384.1	6338.8	6369.0
10°	6969.6	6845.9	6752.3	6559.1	6311.6	6127.5	6046.0	6003.7	6033.9
12.5°	6698.0	6595.3	6453.5	6242.2	5976.6	5783.4	5723.0	5689.8	5701.9
15°	6411.2	6290.5	6133.5	5922.2	5656.6	5463.4	5427.2	5406.1	5412.1
17.5°	5994.7	5876.9	5741.1	5535.9	5291.4	5134.4	5134.4	5119.3	5128.4
20°	5475.5	5412.1	5279.3	5107.2	4899.0	4757.1	4802.4	4787.3	4805.4
22.5°	4914.1	4865.8	4751.1	4609.2	4434.1	4322.4	4422.0	4419.0	4443.2
25°	4271.1	4234.9	4156.4	4035.7	3881.7	3812.3	3978.3	3978.3	4041.7
27.5°	3561.8	3525.6	3471.2	3368.6	3241.8	3220.7	3465.2	3495.4	3564.8
30°	2837.4	2813.2	2783.0	2689.5	2583.8	2623.0	2961.1	3012.4	3090.9
32.5°	2191.4	2176.3	2167.3	2082.7	1989.2	2119.0	2505.3	2571.7	2650.2
35°	1654.1	1620.9	1645.1	1581.7	1497.2	1660.2	2085.8	2143.1	2206.5
37.5°	1219.5	1195.3	1216.4	1171.2	1095.7	1273.8	1675.2	1711.5	1753.7
40°	875.4	854.2	872.3	845.2	784.8	950.8	1313.0	1352.3	1370.4
42.5°	621.8	585.6	603.7	582.6	552.4	715.4	1032.3	1068.5	1074.6
45°	392.4	380.3	392.4	380.3	374.3	531.2	815.0	848.2	863.3
47.5°	238.5	223.4	223.4	217.3	223.4	392.4	673.1	721.4	745.6
50°	135.8	129.8	126.8	123.8	135.8	307.9	582.6	636.9	667.1
52.5°	90.6	87.5	87.5	84.5	99.6	259.6	525.2	573.5	603.7
55°	66.4	63.4	63.4	63.4	78.5	223.4	483.0	522.2	549.4
57.5°	51.3	51.3	51.3	48.3	66.4	190.2	431.6	452.8	473.9
60°	42.3	39.2	39.2	39.2	54.3	163.0	371.3	380.3	392.4
62.5°	33.2	33.2	33.2	33.2	45.3	144.9	320.0	320.0	326.0
65°	30.2	27.2	27.2	27.2	39.2	126.8	268.6	265.6	271.7
67.5°	24.1	24.1	24.1	24.1	33.2	108.7	220.3	217.3	223.4
70°	21.1	21.1	21.1	21.1	27.2	90.6	178.1	175.1	181.1
72.5°	18.1	18.1	18.1	18.1	24.1	75.5	141.9	141.9	144.9
75°	15.1	15.1	15.1	15.1	21.1	57.4	114.7	114.7	117.7
77.5°	12.1	12.1	12.1	12.1	15.1	45.3	87.5	84.5	84.5
80°	6.0	9.1	9.1	9.1	12.1	33.2	63.4	57.4	57.4
82.5°	3.0	6.0	6.0	6.0	12.1	24.1	42.3	39.2	39.2
85°	3.0	3.0	3.0	9.1	12.1	18.1	27.2	27.2	27.2
87.5°	0.0	3.0	6.0	12.1	15.1	15.1	18.1	15.1	15.1
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)