

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: P800054

Luminaire Tested: **LD6C70D010 EU6709040 6LBMDSWGPH**

Issue Date: 4/12/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P800054  
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 EU6709040 6LBMDSWGPH  
Description: 6 INCH 7000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS  
AND 6LBMDSW TRIM WITH GPH FINISH  
Light Source: -  
Ballast/Driver: -

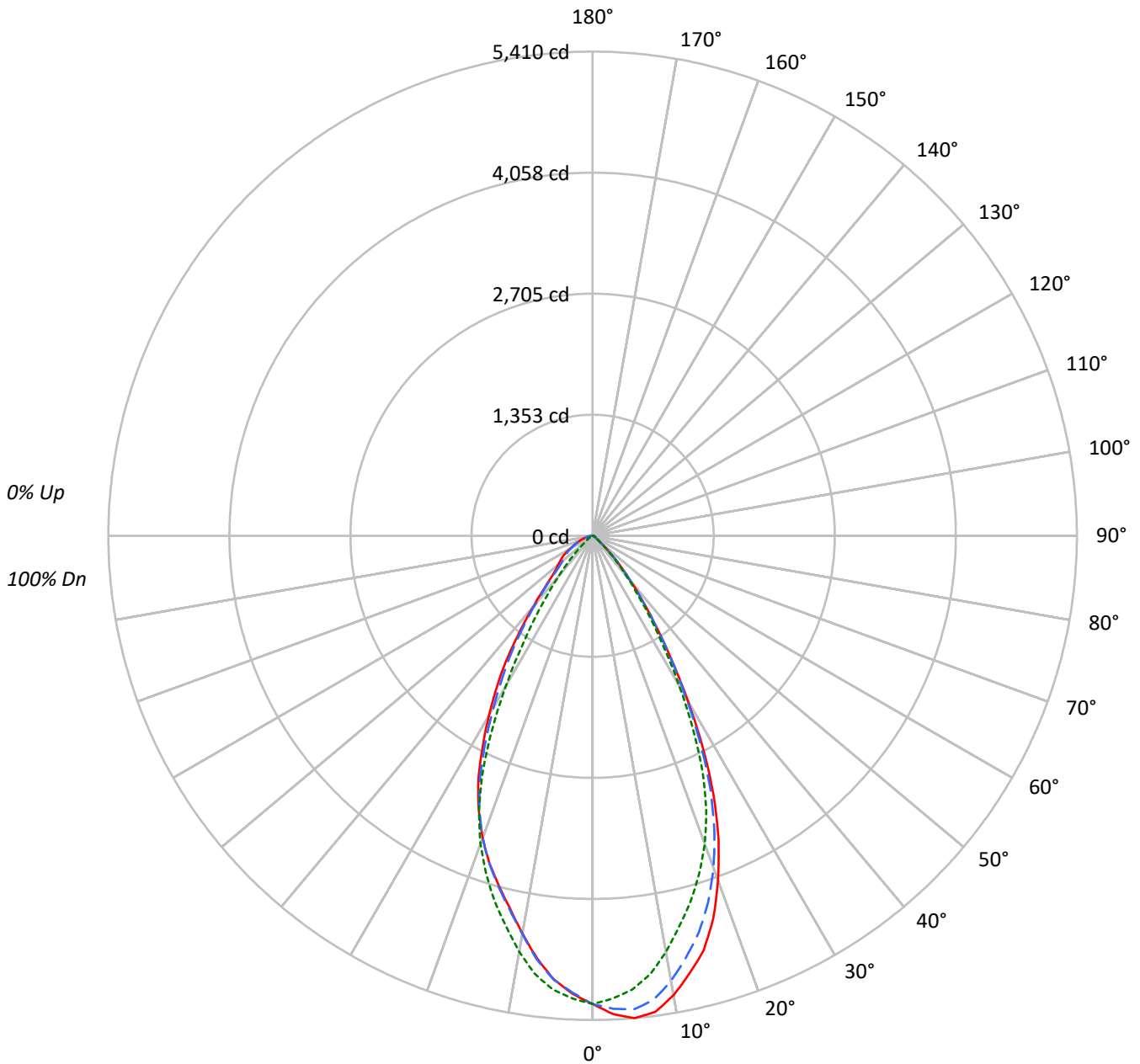
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4504.0 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	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°	286781	286781	286781
5°	297688	280057	273723
10°	290075	262687	251131
15°	272050	240030	229655
20°	238832	213682	209604
25°	193160	175552	182787
30°	134286	122285	146288
35°	82764	74914	110403
40°	46838	41993	73323
45°	22747	21692	50044
50°	8665	8665	42540
55°	4750	5610	39253
60°	3465	4451	32168
65°	2932	3801	26345
70°	2532	3254	21702
75°	2393	3347	18639
80°	1421	2841	13543
85°	1447	5661	12769



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	478.9	10.6
10°-20°	1203.7	26.7
20°-30°	1355.0	30.1
30°-40°	839.0	18.6
40°-50°	334.1	7.4
50°-60°	152.1	3.4
60°-70°	87.4	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°	3037.6	67.4
0°-40°	3876.7	86.1
0°-60°	4362.9	96.9
0°-90°	4504.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4504.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	5231	5231	5231	5231	5231	
5°	5410	5310	5089	4979	4974	509
15°	4794	4586	4229	4058	4046	1326
25°	3193	3108	2902	2974	3022	1435
35°	1237	1230	1119	1560	1650	795
45°	293	293	280	609	646	249
55°	50	47	59	361	411	49
65°	23	20	29	201	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°	5231.3	5231.3	5231.3	5231.3	5231.3	5231.3	5231.3	5231.3	5231.3
2.5°	5351.0	5301.3	5290.0	5247.1	5174.9	5134.3	5109.5	5091.4	5123.0
5°	5409.6	5355.5	5310.3	5222.3	5089.2	5014.7	4978.6	4949.2	4974.1
7.5°	5366.7	5290.0	5229.1	5107.2	4938.0	4822.9	4773.2	4739.3	4761.9
10°	5211.0	5118.5	5048.5	4904.1	4719.0	4581.4	4520.4	4488.8	4511.4
12.5°	5007.9	4931.2	4825.1	4667.1	4468.5	4324.1	4279.0	4254.1	4263.2
15°	4793.5	4703.2	4585.9	4427.9	4229.3	4084.9	4057.8	4042.0	4046.5
17.5°	4482.1	4394.1	4292.5	4139.0	3956.2	3838.9	3838.9	3827.6	3834.4
20°	4093.9	4046.5	3947.2	3818.6	3662.8	3556.8	3590.6	3579.3	3592.9
22.5°	3674.1	3638.0	3552.3	3446.2	3315.3	3231.8	3306.3	3304.0	3322.1
25°	3193.4	3166.3	3107.7	3017.4	2902.3	2850.4	2974.5	2974.5	3021.9
27.5°	2663.1	2636.0	2595.4	2518.6	2423.8	2408.0	2590.8	2613.4	2665.3
30°	2121.4	2103.4	2080.8	2010.8	1931.8	1961.2	2214.0	2252.3	2311.0
32.5°	1638.5	1627.2	1620.4	1557.2	1487.3	1584.3	1873.2	1922.8	1981.5
35°	1236.7	1211.9	1230.0	1182.6	1119.4	1241.3	1559.5	1602.4	1649.7
37.5°	911.8	893.7	909.5	875.7	819.2	952.4	1252.5	1279.6	1311.2
40°	654.5	638.7	652.2	631.9	586.8	710.9	981.7	1011.1	1024.6
42.5°	464.9	437.8	451.4	435.6	413.0	534.9	771.8	798.9	803.4
45°	293.4	284.4	293.4	284.4	279.8	397.2	609.3	634.2	645.5
47.5°	178.3	167.0	167.0	162.5	167.0	293.4	503.3	539.4	557.4
50°	101.6	97.0	94.8	92.5	101.6	230.2	435.6	476.2	498.8
52.5°	67.7	65.4	65.4	63.2	74.5	194.1	392.7	428.8	451.4
55°	49.7	47.4	47.4	47.4	58.7	167.0	361.1	390.4	410.7
57.5°	38.4	38.4	38.4	36.1	49.7	142.2	322.7	338.5	354.3
60°	31.6	29.3	29.3	29.3	40.6	121.9	277.6	284.4	293.4
62.5°	24.8	24.8	24.8	24.8	33.9	108.3	239.2	239.2	243.7
65°	22.6	20.3	20.3	20.3	29.3	94.8	200.9	198.6	203.1
67.5°	18.1	18.1	18.1	18.1	24.8	81.2	164.7	162.5	167.0
70°	15.8	15.8	15.8	15.8	20.3	67.7	133.2	130.9	135.4
72.5°	13.5	13.5	13.5	13.5	18.1	56.4	106.1	106.1	108.3
75°	11.3	11.3	11.3	11.3	15.8	42.9	85.8	85.8	88.0
77.5°	9.0	9.0	9.0	9.0	11.3	33.9	65.4	63.2	63.2
80°	4.5	6.8	6.8	6.8	9.0	24.8	47.4	42.9	42.9
82.5°	2.3	4.5	4.5	4.5	9.0	18.1	31.6	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)