

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: P859472

Luminaire Tested: **LD4C70D010 EU4709035 4LBMDSWH**

Issue Date: 4/12/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P859472  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2309-186-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/12/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD4C70D010 EU4709035 4LBMDSWH  
Description: 4 INCH 7000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS  
AND 4LBMDSW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

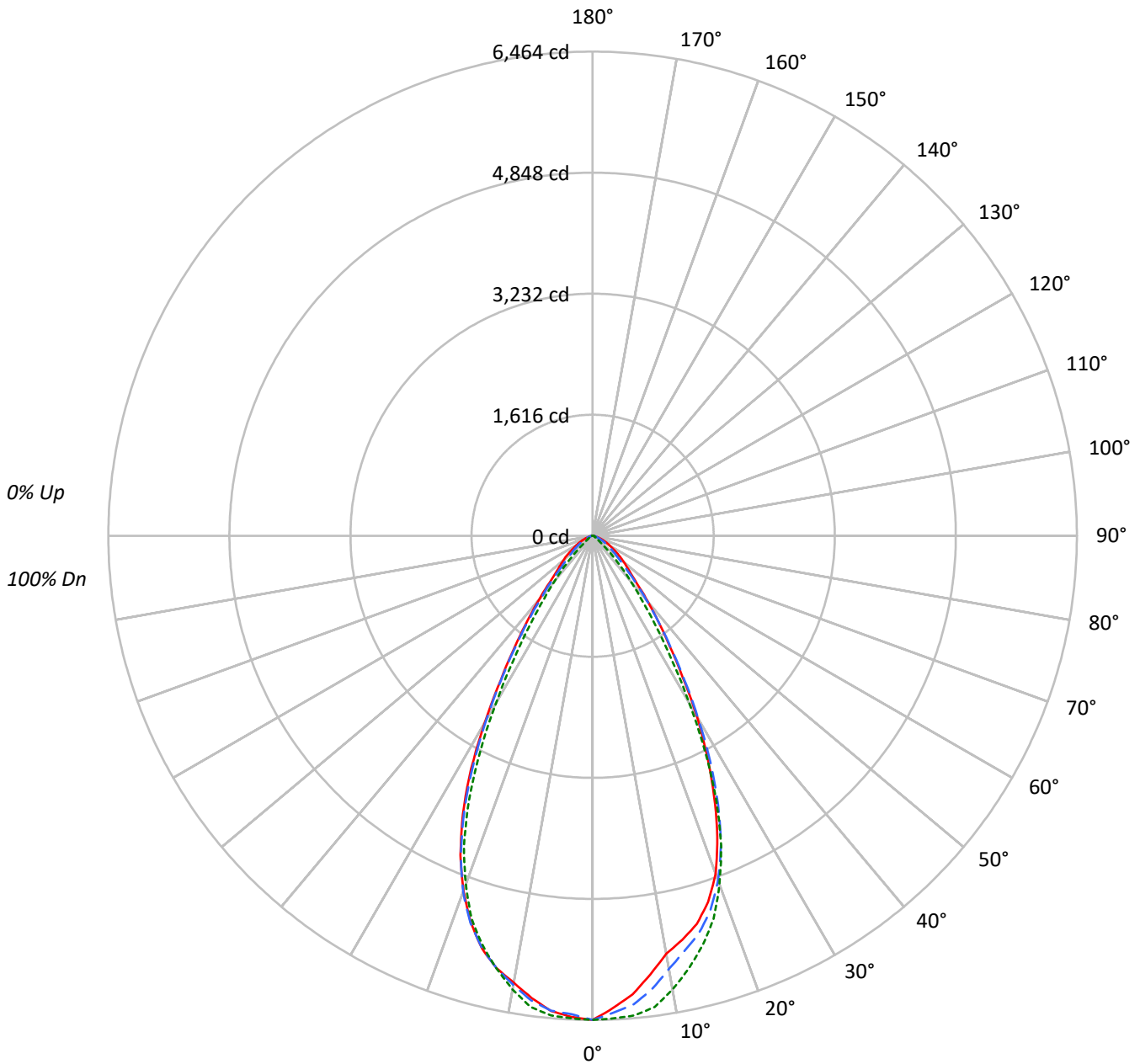
Lumens per Lamp: N/A  
Luminaire Lumens: 5884.0 lumens  
Efficiency: N/A  
Efficacy: 75.4 lumens/watt  
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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	111	108	105	103	104	102	100	100	99	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	86	81	77	84	80	76	82	78	75	80	77	74	72					72			
5	91	82	75	71	89	81	75	71	79	74	70	77	73	69	76	72	69	67					67			
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	62					62			
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58					58			
8	77	67	61	57	76	67	61	57	66	60	56	65	60	56	64	59	56	55					55			
9	74	63	57	53	72	63	57	53	62	57	53	61	56	53	60	56	53	51					51			
10	70	60	54	50	69	60	54	50	59	53	50	58	53	50	57	53	49	48					48			

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

	0°	90°	180°
0°	794063	794063	794063
5°	757707	792793	785406
10°	706689	767080	755877
15°	682411	720503	725578
20°	627725	647310	659050
25°	520283	529744	555459
30°	395787	366053	407121
35°	267978	219325	270977
40°	182505	125669	176892
45°	126605	63311	119673
50°	103017	25764	96347
55°	83384	16043	75908
60°	66218	12261	60100
65°	52238	10145	46424
70°	39440	8980	35848
75°	28433	7120	26059
80°	21154	7075	17687
85°	14096	7048	14096



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	594.3	10.1
10°-20°	1561.4	26.5
20°-30°	1791.4	30.4
30°-40°	1088.3	18.5
40°-50°	466.4	7.9
50°-60°	223.7	3.8
60°-70°	108.8	1.8
70°-80°	40.4	0.7
80°-90°	9.3	0.2
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°	3947.1	67.1
0°-40°	5035.4	85.6
0°-60°	5725.5	97.3
0°-90°	5884.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5884.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	6464	6464	6464	6464	6464	
5°	6144	6279	6429	6364	6369	571
15°	5365	5490	5665	5700	5705	1494
25°	3838	3963	3908	4058	4098	1741
35°	1787	1812	1462	1767	1807	1145
45°	729	649	364	584	689	592
55°	389	290	75	260	354	351
65°	180	120	35	110	160	182
75°	60	40	15	35	55	66
85°	10	10	5	5	10	14
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°	6463.5	6463.5	6463.5	6463.5	6463.5	6463.5	6463.5	6463.5	6463.5
2.5°	6308.8	6378.6	6373.6	6433.5	6448.5	6433.5	6393.6	6433.5	6428.6
5°	6144.1	6223.9	6278.8	6378.6	6428.6	6418.6	6363.7	6373.6	6368.7
7.5°	5904.5	6004.3	6099.1	6248.9	6343.7	6338.7	6258.9	6243.9	6223.9
10°	5664.9	5759.7	5869.5	6024.3	6149.0	6169.0	6089.2	6069.2	6059.2
12.5°	5525.2	5600.0	5674.9	5809.7	5919.5	5959.4	5914.5	5919.5	5914.5
15°	5365.4	5440.3	5490.2	5590.0	5664.9	5719.8	5699.8	5729.8	5704.8
17.5°	5125.9	5215.7	5235.7	5310.5	5365.4	5400.4	5420.3	5450.3	5410.4
20°	4801.4	4871.3	4896.3	4926.2	4951.2	4996.1	5056.0	5085.9	5041.0
22.5°	4347.3	4482.0	4477.0	4462.1	4487.0	4502.0	4596.8	4646.7	4611.8
25°	3838.2	3977.9	3962.9	3903.0	3908.0	3938.0	4057.8	4122.7	4097.7
27.5°	3304.1	3433.9	3398.9	3284.2	3254.2	3299.1	3453.8	3528.7	3513.7
30°	2790.0	2874.9	2820.0	2615.3	2580.4	2635.3	2835.0	2909.8	2869.9
32.5°	2236.0	2300.9	2275.9	2026.4	1966.5	2021.4	2256.0	2325.9	2280.9
35°	1786.8	1846.7	1811.8	1517.3	1462.4	1522.3	1766.9	1846.7	1806.8
37.5°	1432.4	1477.4	1432.4	1118.0	1068.1	1128.0	1362.6	1467.4	1417.5
40°	1138.0	1172.9	1113.0	823.5	783.6	813.6	1033.2	1138.0	1103.0
42.5°	898.4	923.4	858.5	603.9	559.0	598.9	778.6	873.4	853.5
45°	728.7	728.7	648.8	419.3	364.4	404.3	584.0	683.8	688.8
47.5°	623.9	608.9	509.1	279.5	209.6	264.5	464.2	569.0	584.0
50°	539.0	519.1	419.3	204.6	134.8	189.7	384.3	489.1	504.1
52.5°	464.2	449.2	349.4	159.7	94.8	144.7	324.4	424.2	439.2
55°	389.3	379.3	289.5	124.8	74.9	109.8	259.5	344.4	354.4
57.5°	319.4	304.5	234.6	104.8	59.9	89.8	214.6	284.5	294.5
60°	269.5	254.5	189.7	84.8	49.9	69.9	174.7	234.6	244.6
62.5°	224.6	209.6	154.7	69.9	39.9	59.9	139.8	189.7	199.6
65°	179.7	169.7	119.8	54.9	34.9	44.9	109.8	149.7	159.7
67.5°	144.7	134.8	94.8	44.9	29.9	34.9	84.8	119.8	129.8
70°	109.8	99.8	69.9	34.9	25.0	29.9	64.9	89.8	99.8
72.5°	79.9	74.9	54.9	29.9	20.0	25.0	44.9	64.9	74.9
75°	59.9	54.9	39.9	20.0	15.0	20.0	34.9	49.9	54.9
77.5°	39.9	39.9	29.9	15.0	15.0	15.0	25.0	34.9	34.9
80°	29.9	25.0	20.0	10.0	10.0	10.0	15.0	25.0	25.0
82.5°	20.0	15.0	15.0	10.0	10.0	10.0	10.0	15.0	15.0
85°	10.0	10.0	10.0	5.0	5.0	5.0	5.0	10.0	10.0
87.5°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
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)