

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: P563847

Luminaire Tested: **LD4C45D010 EX4C459030 4LCSQWH**

Issue Date: 2/18/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P563847  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2105-247-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/18/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD4C45D010 EX4C459030 4LCSQWH  
Description: 4 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 4LCSQW TRIM WITH H FINISH, DIM TO WARM  
Light Source: -  
Ballast/Driver: -

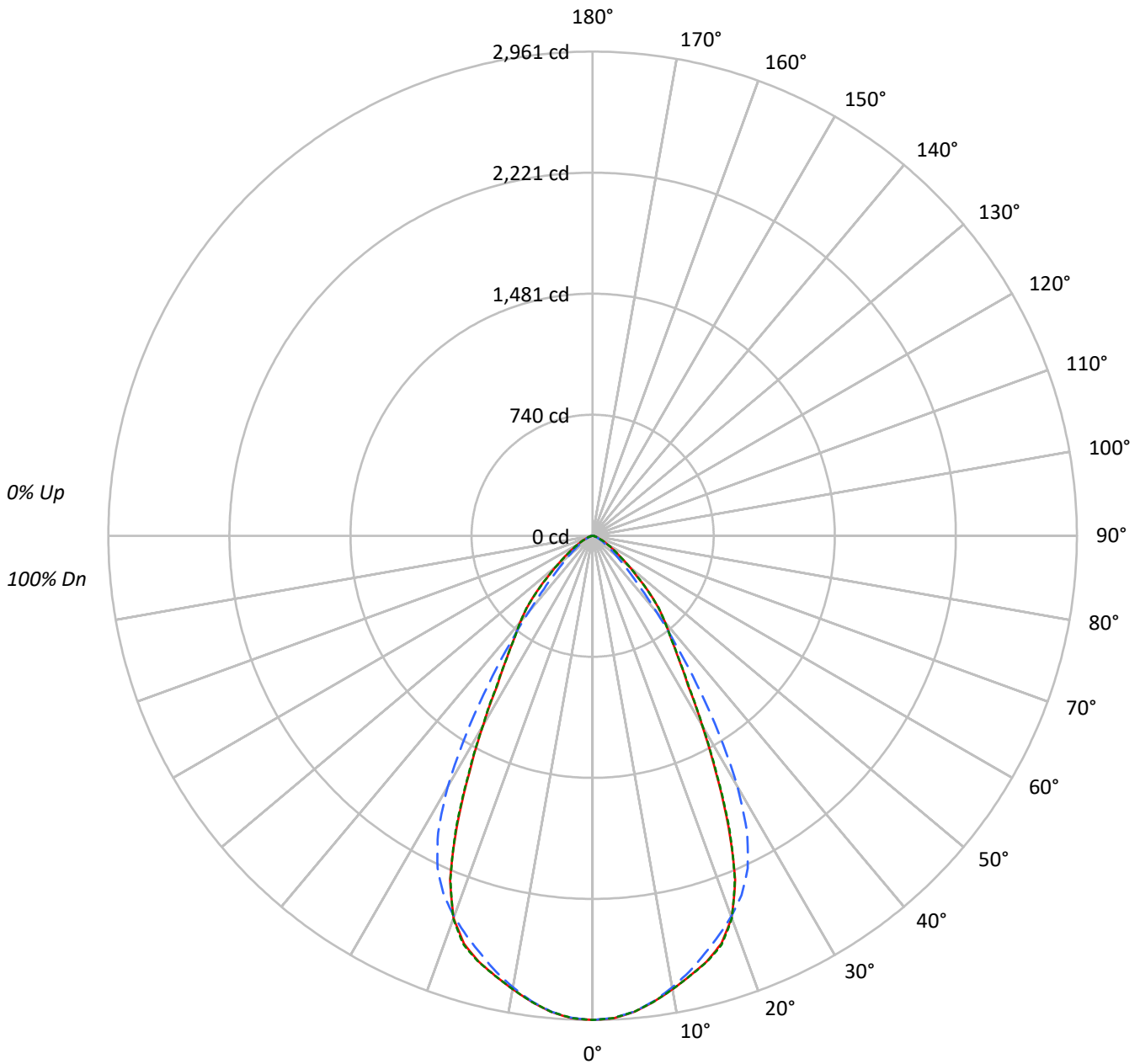
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3134.0 lumens  
Efficiency: N/A  
Efficacy: 63.2 lumens/watt  
Spacing Criteria (0/90/45): 0.93 / 0.93 / 0.94  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 49.6  
Input Voltage (V):  
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									
RC	80									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	96	95	94	92			92																
2	107	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84			84																
3	101	93	88	84	98	92	87	83	89	85	82	87	83	80	85	82	79	77			77																
4	95	87	80	76	93	85	80	75	83	78	74	81	77	74	79	76	73	71			71																
5	89	80	74	69	88	79	73	69	78	72	68	76	71	68	74	70	67	66			66																
6	85	75	68	64	83	74	68	63	72	67	63	71	66	63	70	65	62	61			61																
7	80	70	63	59	79	69	63	59	68	62	58	67	62	58	65	61	58	56			56																
8	76	65	59	55	74	65	59	54	64	58	54	63	58	54	62	57	54	52			52																
9	72	61	55	51	71	61	55	51	60	54	51	59	54	50	58	54	50	49			49																
10	68	58	52	48	67	57	51	47	57	51	47	56	51	47	55	50	47	46			46																

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

	0°	45°	90°
0°	285713	285713	285713
5°	283085	282911	282998
10°	275846	274738	275846
15°	269201	264346	269480
20°	255235	254280	255718
25°	209372	238883	210457
30°	149297	197362	149509
35°	107685	130784	108015
40°	86331	75977	86331
45°	65881	44348	65362
50°	43457	28311	43322
55°	29204	19009	28901
60°	19645	12968	19819
65°	13425	9178	13219
70°	8943	6573	8943
75°	5928	4884	5928
80°	4112	3612	4112
85°	3100	3100	3100



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	275.3	8.8
10°-20°	750.5	23.9
20°-30°	938.3	29.9
30°-40°	631.2	20.1
40°-50°	333.3	10.6
50°-60°	135.5	4.3
60°-70°	50.2	1.6
70°-80°	16.2	0.5
80°-90°	3.5	0.1
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°	1964.1	62.7
0°-40°	2595.3	82.8
0°-60°	3064.0	97.8
0°-90°	3134.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3134.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2961	2961	2961	2961	2961	
5°	2923	2920	2921	2921	2922	275
15°	2695	2672	2646	2672	2698	755
25°	1967	2077	2244	2080	1977	885
35°	914	960	1110	962	917	588
45°	483	458	325	457	479	370
55°	174	146	113	146	172	161
65°	59	48	40	48	58	61
75°	16	14	13	14	16	18
85°	3	3	3	3	3	4
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2961.1	2961.1	2961.1	2961.1	2961.1
2.5°	2953.5	2951.7	2950.8	2950.8	2951.7
5°	2922.7	2920.0	2920.9	2920.9	2921.8
7.5°	2873.3	2872.4	2869.5	2873.3	2873.3
10°	2815.4	2810.7	2804.1	2811.6	2815.4
12.5°	2755.6	2741.6	2730.4	2741.6	2755.6
15°	2694.9	2672.5	2646.3	2671.6	2697.7
17.5°	2615.5	2593.1	2564.2	2597.8	2623.1
20°	2485.7	2487.6	2476.4	2485.7	2490.4
22.5°	2277.5	2319.5	2378.3	2320.4	2271.0
25°	1966.6	2076.7	2243.8	2080.5	1976.8
27.5°	1633.2	1773.3	2046.8	1781.6	1643.5
30°	1340.0	1464.2	1771.4	1472.6	1341.9
32.5°	1085.0	1177.5	1439.9	1188.7	1097.2
35°	914.2	959.9	1110.3	961.8	917.0
37.5°	783.4	783.4	824.5	787.2	779.7
40°	685.4	655.5	603.2	654.6	685.4
42.5°	593.8	549.1	437.9	547.2	595.8
45°	482.8	458.5	325.0	456.6	479.0
47.5°	370.7	353.9	244.6	352.1	373.5
50°	289.5	263.4	188.6	261.4	288.6
52.5°	222.3	194.2	145.7	194.2	220.3
55°	173.6	145.7	113.0	145.7	171.8
57.5°	133.6	111.1	86.0	109.2	132.6
60°	101.8	83.1	67.2	83.1	102.7
62.5°	77.5	63.5	51.4	62.6	76.6
65°	58.8	47.6	40.2	47.6	57.9
67.5°	42.9	35.5	30.8	35.5	43.8
70°	31.7	27.1	23.3	26.1	31.7
72.5°	23.3	19.6	17.7	19.6	23.3
75°	15.9	14.0	13.1	14.0	15.9
77.5°	11.2	10.3	9.4	10.3	11.2
80°	7.4	6.5	6.5	7.4	7.4
82.5°	4.7	4.7	4.7	4.7	4.7
85°	2.8	2.8	2.8	2.8	2.8
87.5°	1.8	1.8	1.8	1.8	1.8
90°	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)