

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: P#

Luminaire Tested: **LD4C45D010 EX4C459040 4LCSQWH**

Issue Date: 2/18/2022

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-79-08
Report Number: P#
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 EX4C459040 4LCSQWH
Description: 4 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LCSQW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

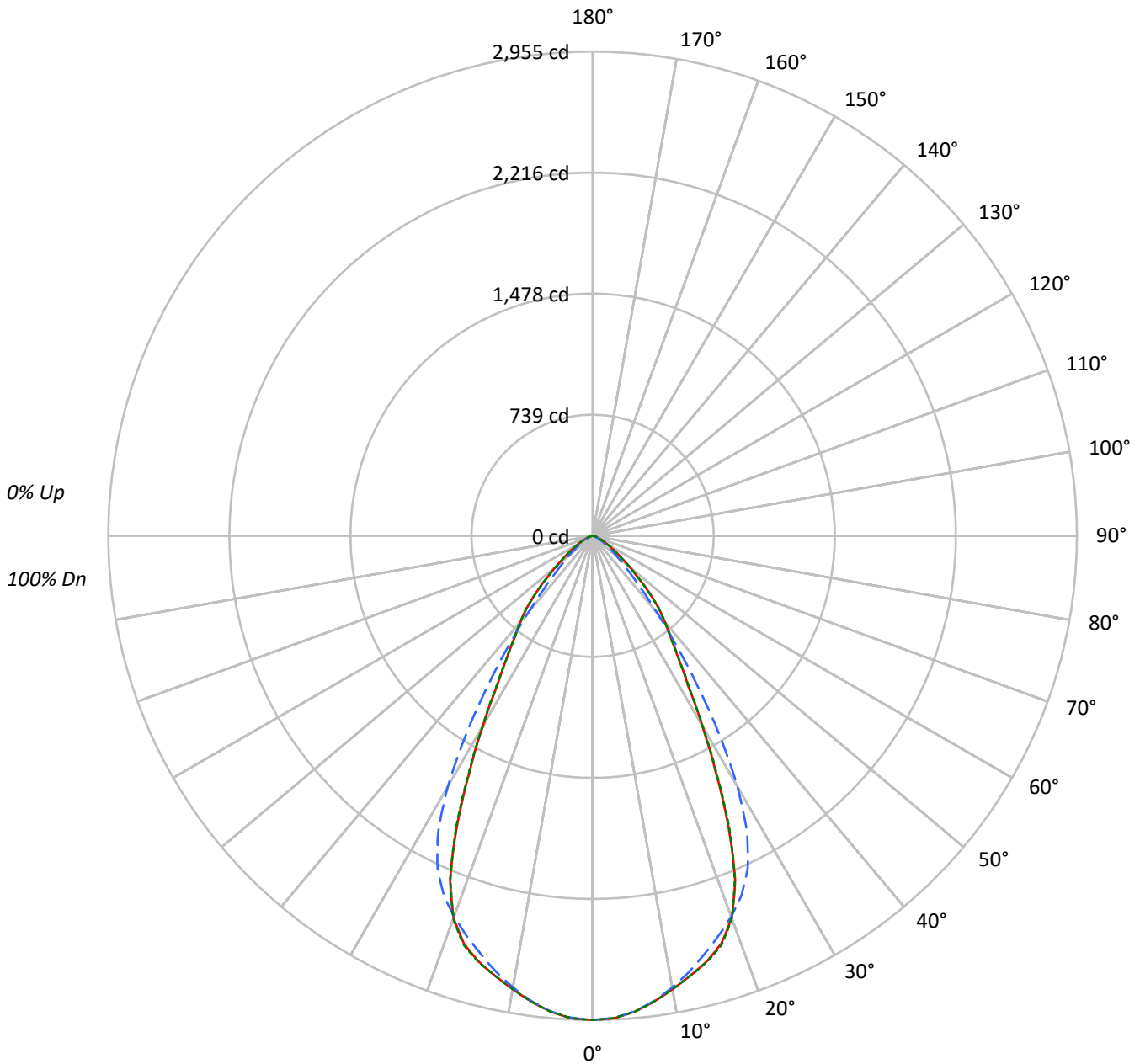
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3128.0 lumens
Efficiency: N/A
Efficacy: 63.1 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 (Ain): 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°	285163	285163	285163
5°	282553	282369	282456
10°	275316	274219	275316
15°	268691	263846	268961
20°	254752	253797	255225
25°	208967	238436	210053
30°	149007	196983	149219
35°	107473	130524	107802
40°	86167	75839	86167
45°	65744	44253	65240
50°	43367	28266	43232
55°	29170	18976	28850
60°	19607	12949	19780
65°	13402	9155	13196
70°	8943	6573	8943
75°	5890	4846	5890
80°	4167	3612	4167
85°	3100	3100	3100



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.7	8.8
10°-20°	749.1	23.9
20°-30°	936.5	29.9
30°-40°	630.0	20.1
40°-50°	332.7	10.6
50°-60°	135.2	4.3
60°-70°	50.1	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°	1960.3	62.7
0°-40°	2590.3	82.8
0°-60°	3058.2	97.8
0°-90°	3128.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3128.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2955	2955	2955	2955	2955	
5°	2917	2914	2915	2915	2916	275
15°	2690	2667	2641	2666	2692	754
25°	1963	2073	2240	2076	1973	883
35°	912	958	1108	960	915	587
45°	482	458	324	456	478	369
55°	173	145	113	145	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°	2955.4	2955.4	2955.4	2955.4	2955.4
2.5°	2947.9	2946.1	2945.1	2945.1	2946.1
5°	2917.2	2914.4	2915.3	2915.3	2916.2
7.5°	2867.8	2866.8	2864.0	2867.8	2867.8
10°	2810.0	2805.3	2798.8	2806.3	2810.0
12.5°	2750.3	2736.4	2725.2	2736.4	2750.3
15°	2689.8	2667.4	2641.3	2666.5	2692.5
17.5°	2610.5	2588.2	2559.3	2592.8	2618.0
20°	2481.0	2482.8	2471.7	2481.0	2485.6
22.5°	2273.1	2315.1	2373.8	2316.0	2266.6
25°	1962.8	2072.8	2239.6	2076.5	1973.0
27.5°	1630.1	1769.9	2042.9	1778.3	1640.3
30°	1337.4	1461.4	1768.0	1469.8	1339.3
32.5°	1083.0	1175.3	1437.1	1186.4	1095.1
35°	912.4	958.1	1108.1	960.0	915.2
37.5°	781.9	781.9	823.0	785.7	778.2
40°	684.1	654.3	602.1	653.3	684.1
42.5°	592.8	548.0	437.1	546.2	594.6
45°	481.8	457.6	324.3	455.7	478.1
47.5°	370.0	353.2	244.2	351.4	372.8
50°	288.9	262.8	188.3	261.0	288.0
52.5°	221.8	193.9	145.4	193.9	220.0
55°	173.4	145.4	112.8	145.4	171.5
57.5°	133.3	110.9	85.7	109.0	132.3
60°	101.6	82.9	67.1	82.9	102.5
62.5°	77.4	63.4	51.3	62.4	76.4
65°	58.7	47.5	40.1	47.5	57.8
67.5°	42.9	35.4	30.8	35.4	43.8
70°	31.7	27.0	23.3	26.1	31.7
72.5°	23.3	19.6	17.7	19.6	23.3
75°	15.8	14.0	13.0	14.0	15.8
77.5°	11.2	10.3	9.3	10.3	11.2
80°	7.5	6.5	6.5	7.5	7.5
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°	1.9	1.9	1.9	1.9	1.9
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)