

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: **LD4C20D010 EX4C209050 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: LD4C20D010 EX4C209050 4LCSQWH
Description: 4 INCH 2000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LCSQW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

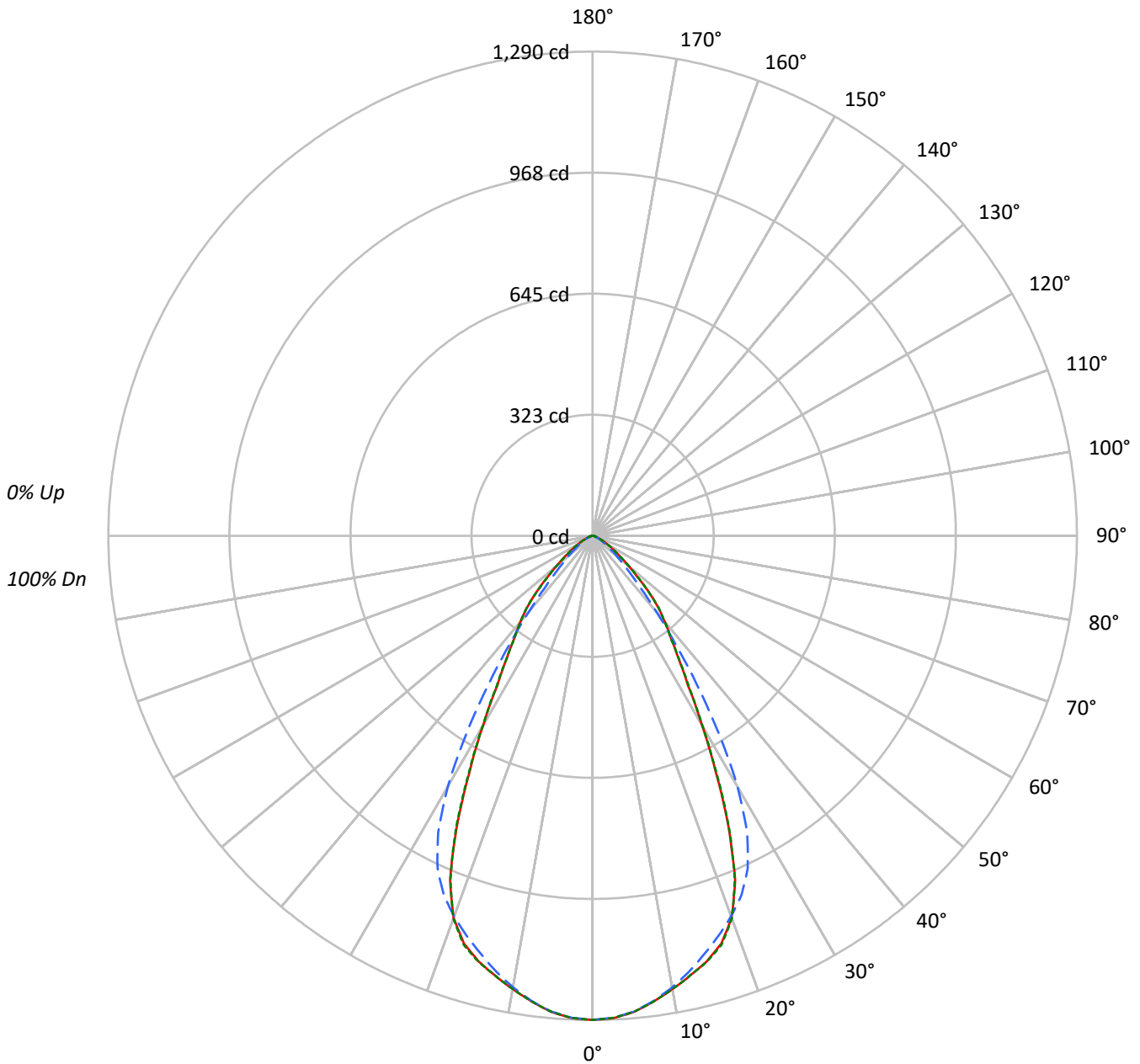
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1365.0 lumens
Efficiency: N/A
Efficacy: 62.6 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): 21.8
Input Voltage (V):
Input Current (A_{in}): 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																			
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92																			
2	107	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84																			
3	101	93	88	84	98	92	87	83	89	85	82	87	83	80	85	82	79	77																			
4	95	87	80	76	93	85	80	75	83	78	74	81	77	74	79	76	73	71																			
5	89	80	74	69	88	79	73	69	78	72	68	76	71	68	74	70	67	66																			
6	85	75	68	64	83	74	68	63	72	67	63	71	66	63	70	65	62	61																			
7	80	70	63	59	79	69	63	59	68	62	58	67	62	58	65	61	58	56																			
8	76	65	59	55	74	65	59	54	64	58	54	63	58	54	62	57	54	52																			
9	72	61	55	51	71	61	55	51	60	54	51	59	54	50	58	54	50	49																			
10	68	58	52	48	67	57	51	47	57	51	47	56	51	47	55	50	47	46																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	124442	124442	124442
5°	123300	123222	123261
10°	120140	119660	120140
15°	117254	115136	117374
20°	111173	110752	111378
25°	91186	104047	91665
30°	65022	85957	65111
35°	46904	56964	47046
40°	37598	33089	37598
45°	28697	19309	28465
50°	18929	12339	18869
55°	12718	8277	12583
60°	8549	5654	8626
65°	5845	3995	5753
70°	3893	2878	3893
75°	2572	2125	2572
80°	1834	1556	1834
85°	1329	1329	1329



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.9	8.8
10°-20°	326.9	23.9
20°-30°	408.7	29.9
30°-40°	274.9	20.1
40°-50°	145.2	10.6
50°-60°	59.0	4.3
60°-70°	21.9	1.6
70°-80°	7.1	0.5
80°-90°	1.5	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°	855.5	62.7
0°-40°	1130.4	82.8
0°-60°	1334.5	97.8
0°-90°	1365.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1365.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1290	1290	1290	1290	1290	
5°	1273	1272	1272	1272	1273	120
15°	1174	1164	1153	1164	1175	329
25°	856	904	977	906	861	386
35°	398	418	484	419	399	256
45°	210	200	142	199	209	161
55°	76	63	49	63	75	70
65°	26	21	18	21	25	26
75°	7	6	6	6	7	8
85°	1	1	1	1	1	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1289.7	1289.7	1289.7	1289.7	1289.7
2.5°	1286.4	1285.6	1285.2	1285.2	1285.6
5°	1273.0	1271.8	1272.2	1272.2	1272.6
7.5°	1251.4	1251.0	1249.8	1251.4	1251.4
10°	1226.2	1224.2	1221.3	1224.6	1226.2
12.5°	1200.2	1194.1	1189.2	1194.1	1200.2
15°	1173.8	1164.0	1152.6	1163.6	1175.0
17.5°	1139.2	1129.4	1116.8	1131.5	1142.4
20°	1082.7	1083.5	1078.6	1082.7	1084.7
22.5°	992.0	1010.3	1035.9	1010.7	989.1
25°	856.5	904.5	977.3	906.1	861.0
27.5°	711.3	772.3	891.5	776.0	715.8
30°	583.6	637.7	771.5	641.4	584.4
32.5°	472.6	512.9	627.1	517.7	477.9
35°	398.2	418.1	483.6	418.9	399.4
37.5°	341.2	341.2	359.1	342.9	339.6
40°	298.5	285.5	262.7	285.1	298.5
42.5°	258.7	239.1	190.7	238.3	259.5
45°	210.3	199.7	141.5	198.9	208.6
47.5°	161.5	154.1	106.6	153.3	162.7
50°	126.1	114.7	82.2	113.9	125.7
52.5°	96.8	84.6	63.4	84.6	96.0
55°	75.6	63.4	49.2	63.4	74.8
57.5°	58.2	48.4	37.4	47.6	57.8
60°	44.3	36.2	29.3	36.2	44.7
62.5°	33.8	27.7	22.4	27.2	33.3
65°	25.6	20.7	17.5	20.7	25.2
67.5°	18.7	15.5	13.4	15.5	19.1
70°	13.8	11.8	10.2	11.4	13.8
72.5°	10.2	8.5	7.7	8.5	10.2
75°	6.9	6.1	5.7	6.1	6.9
77.5°	4.9	4.5	4.1	4.5	4.9
80°	3.3	2.8	2.8	3.3	3.3
82.5°	2.0	2.0	2.0	2.0	2.0
85°	1.2	1.2	1.2	1.2	1.2
87.5°	0.8	0.8	0.8	0.8	0.8
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)