

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: P563802

Luminaire Tested: **LD4C20D010 EX4C20D2W 4LCSQWH**

Issue Date: 2/18/2022

Test Information

Test Method: LM-79-08
Report Number: P563802
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 EX4C20D2W 4LCSQWH
Description: 4 INCH 2000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LCSQW TRIM WITH H FINISH, DIM TO WARM
Light Source: -
Ballast/Driver: -

Summary

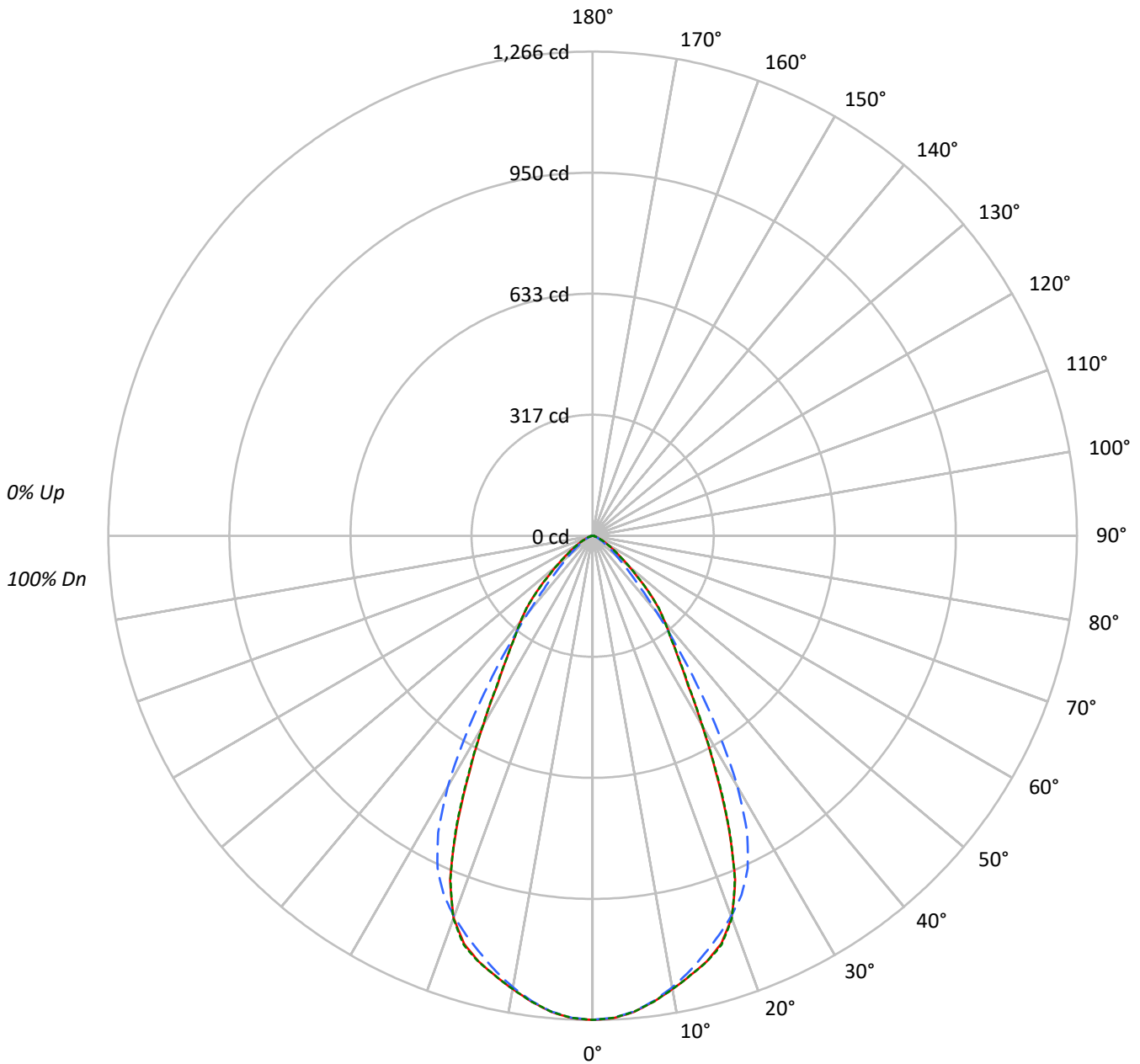
Lumens per Lamp: N/A
Luminaire Lumens: 1339.7 lumens
Efficiency: N/A
Efficacy: 61.5 lumens/watt
Spacing Criteria (0/90/45): 0.93 / 0.93 / 0.94
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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°	122126	122126	122126
5°	121004	120927	120965
10°	117906	117445	117906
15°	115076	112999	115196
20°	109109	108698	109304
25°	89493	102120	89962
30°	63819	84364	63908
35°	46033	55904	46162
40°	36905	32484	36905
45°	28164	18954	27946
50°	18569	12114	18524
55°	12499	8125	12348
60°	8395	5558	8472
65°	5731	3927	5639
70°	3809	2821	3809
75°	2535	2088	2535
80°	1778	1500	1778
85°	1329	1329	1329



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.7	8.8
10°-20°	320.8	23.9
20°-30°	401.1	29.9
30°-40°	269.8	20.1
40°-50°	142.5	10.6
50°-60°	57.9	4.3
60°-70°	21.5	1.6
70°-80°	6.9	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°	839.6	62.7
0°-40°	1109.4	82.8
0°-60°	1309.8	97.8
0°-90°	1339.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1339.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1266	1266	1266	1266	1266	
5°	1249	1248	1248	1248	1249	118
15°	1152	1142	1131	1142	1153	323
25°	841	888	959	889	845	378
35°	391	410	475	411	392	251
45°	206	196	139	195	205	158
55°	74	62	48	62	73	69
65°	25	20	17	20	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°	1265.7	1265.7	1265.7	1265.7	1265.7
2.5°	1262.5	1261.7	1261.3	1261.3	1261.7
5°	1249.3	1248.2	1248.5	1248.5	1248.9
7.5°	1228.2	1227.8	1226.6	1228.2	1228.2
10°	1203.4	1201.4	1198.7	1201.8	1203.4
12.5°	1177.9	1171.9	1167.1	1171.9	1177.9
15°	1152.0	1142.4	1131.2	1142.0	1153.2
17.5°	1118.0	1108.4	1096.0	1110.5	1121.3
20°	1062.6	1063.4	1058.6	1062.6	1064.5
22.5°	973.6	991.5	1016.7	991.9	970.7
25°	840.6	887.7	959.2	889.3	845.0
27.5°	698.1	758.0	875.0	761.6	702.5
30°	572.8	625.9	757.2	629.4	573.6
32.5°	463.8	503.3	615.5	508.1	469.0
35°	390.8	410.3	474.6	411.2	391.9
37.5°	334.9	334.9	352.5	336.5	333.3
40°	293.0	280.2	257.9	279.8	293.0
42.5°	253.9	234.7	187.2	233.9	254.7
45°	206.4	196.0	138.9	195.2	204.8
47.5°	158.5	151.3	104.6	150.4	159.7
50°	123.7	112.6	80.7	111.8	123.4
52.5°	95.0	83.0	62.3	83.0	94.2
55°	74.3	62.3	48.3	62.3	73.4
57.5°	57.1	47.5	36.7	46.7	56.7
60°	43.5	35.5	28.8	35.5	43.9
62.5°	33.2	27.2	22.0	26.8	32.8
65°	25.1	20.3	17.2	20.3	24.7
67.5°	18.4	15.2	13.1	15.2	18.7
70°	13.5	11.6	10.0	11.2	13.5
72.5°	10.0	8.3	7.6	8.3	10.0
75°	6.8	6.0	5.6	6.0	6.8
77.5°	4.8	4.4	4.0	4.4	4.8
80°	3.2	2.7	2.7	3.2	3.2
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)