

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: **LD4C80D010 EX4C809040 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: LD4C80D010 EX4C809040 4LCSQWH
Description: 4 INCH 8000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LCSQW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

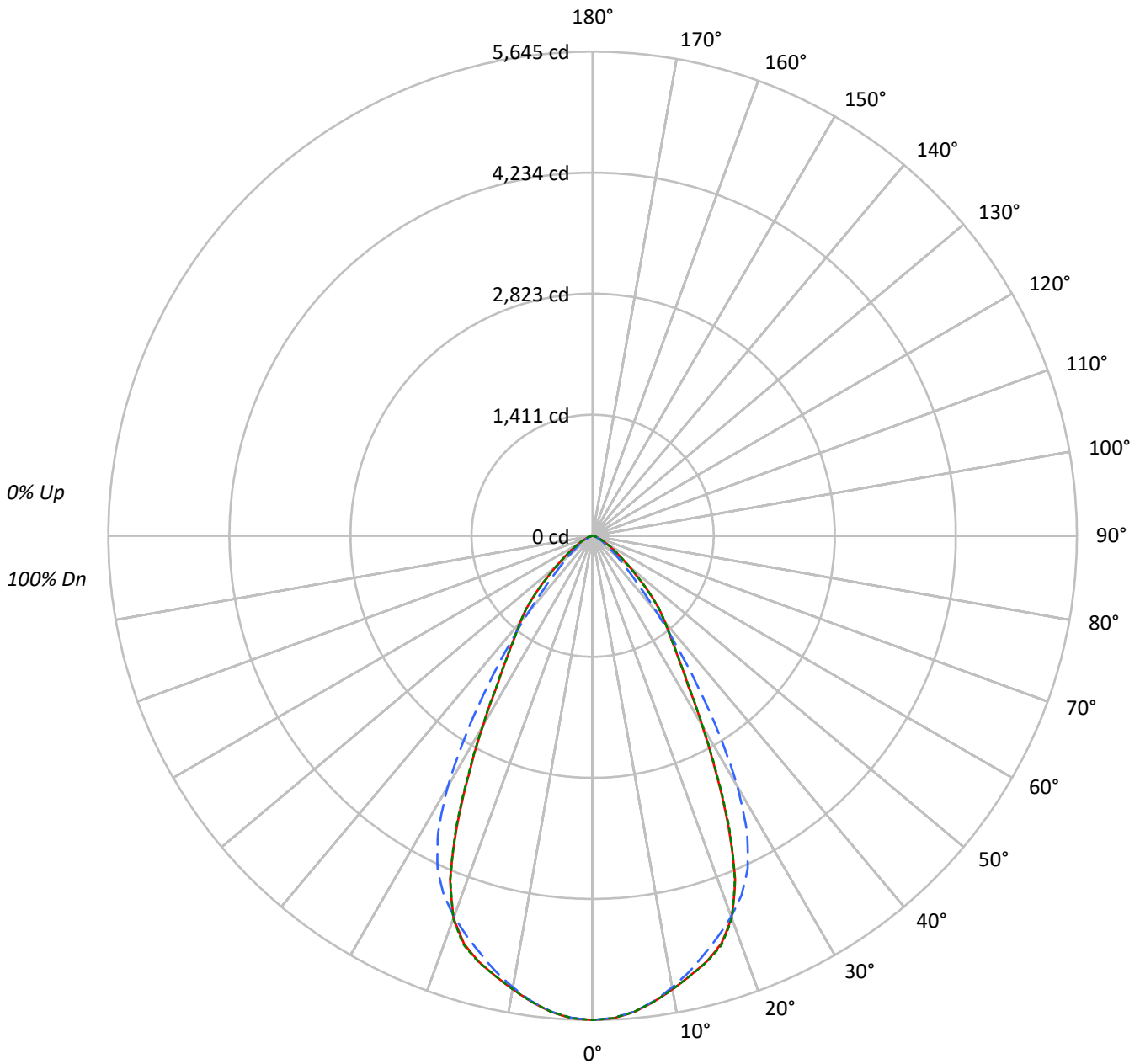
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5975.0 lumens
Efficiency: N/A
Efficacy: 66.8 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): 89.5
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																			
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°	544709	544709	544709
5°	539719	539370	539545
10°	525894	523807	525894
15°	513238	503988	513768
20°	486617	484789	487531
25°	399164	455452	401240
30°	284634	376273	285035
35°	205298	249329	205923
40°	164588	144863	164588
45°	125594	84534	124625
50°	82846	53980	82576
55°	55699	36235	55110
60°	37438	24740	37785
65°	25617	17489	25206
70°	17068	12554	17068
75°	11296	9283	11296
80°	7890	6946	7890
85°	5868	5868	5868



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	524.8	8.8
10°-20°	1430.9	23.9
20°-30°	1788.9	29.9
30°-40°	1203.4	20.1
40°-50°	635.4	10.6
50°-60°	258.3	4.3
60°-70°	95.8	1.6
70°-80°	30.9	0.5
80°-90°	6.7	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°	3744.6	62.7
0°-40°	4948.0	82.8
0°-60°	5841.6	97.8
0°-90°	5975.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5975.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5645	5645	5645	5645	5645	
5°	5572	5567	5569	5569	5570	525
15°	5138	5095	5045	5093	5143	1439
25°	3749	3959	4278	3966	3769	1688
35°	1743	1830	2117	1834	1748	1122
45°	920	874	620	871	913	706
55°	331	278	215	278	328	307
65°	112	91	77	91	110	116
75°	30	27	25	27	30	35
85°	5	5	5	5	5	7
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5645.3	5645.3	5645.3	5645.3	5645.3
2.5°	5631.0	5627.4	5625.7	5625.7	5627.4
5°	5572.3	5566.9	5568.7	5568.7	5570.5
7.5°	5477.9	5476.1	5470.8	5477.9	5477.9
10°	5367.5	5358.6	5346.2	5360.4	5367.5
12.5°	5253.6	5226.9	5205.5	5226.9	5253.6
15°	5137.9	5095.1	5045.3	5093.4	5143.2
17.5°	4986.5	4943.8	4888.6	4952.7	5000.8
20°	4739.1	4742.7	4721.3	4739.1	4748.0
22.5°	4342.1	4422.2	4534.4	4424.0	4329.6
25°	3749.3	3959.3	4278.0	3966.5	3768.8
27.5°	3113.7	3380.7	3902.4	3396.8	3133.3
30°	2554.7	2791.5	3377.2	2807.5	2558.3
32.5°	2068.7	2244.9	2745.2	2266.3	2091.8
35°	1742.9	1830.1	2116.7	1833.7	1748.2
37.5°	1493.7	1493.7	1572.0	1500.8	1486.5
40°	1306.7	1249.8	1150.1	1248.0	1306.7
42.5°	1132.3	1046.8	834.9	1043.2	1135.8
45°	920.4	874.1	619.5	870.6	913.3
47.5°	706.8	674.7	466.4	671.2	712.1
50°	551.9	502.0	359.6	498.5	550.1
52.5°	423.7	370.3	277.7	370.3	420.1
55°	331.1	277.7	215.4	277.7	327.6
57.5°	254.6	211.9	163.8	208.3	252.8
60°	194.0	158.4	128.2	158.4	195.8
62.5°	147.8	121.1	97.9	119.3	146.0
65°	112.2	90.8	76.6	90.8	110.4
67.5°	81.9	67.7	58.7	67.7	83.7
70°	60.5	51.6	44.5	49.8	60.5
72.5°	44.5	37.4	33.8	37.4	44.5
75°	30.3	26.7	24.9	26.7	30.3
77.5°	21.4	19.6	17.8	19.6	21.4
80°	14.2	12.5	12.5	14.2	14.2
82.5°	8.9	8.9	8.9	8.9	8.9
85°	5.3	5.3	5.3	5.3	5.3
87.5°	3.6	3.6	3.6	3.6	3.6
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)