

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 EX4C809030 4LCSQWLI**

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 (G1-2105-247-13)
Test Lab: INNOVATION CENTER
Issue Date: 2/18/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C80D010 EX4C809030 4LCSQWLI
Description: 4 INCH 8000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LCSQW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

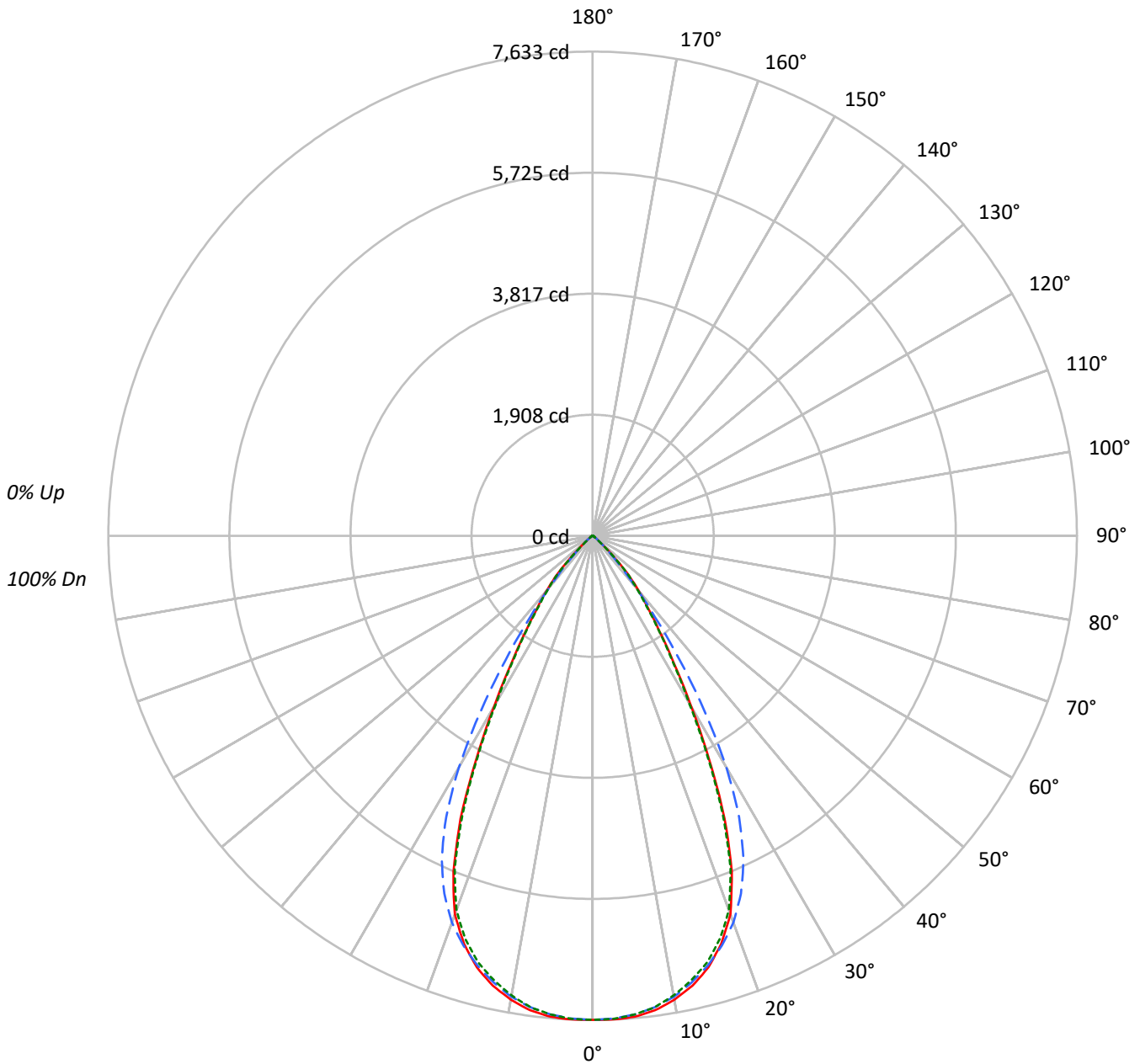
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6832.0 lumens
Efficiency: N/A
Efficacy: 76.3 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.9
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	114	111	108	106	111	109	106	104	105	103	101	101	100	98	97	96	95	94																			
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87																			
3	103	96	91	88	101	95	90	87	92	89	85	90	87	84	88	85	83	81																			
4	98	90	85	80	96	89	84	80	87	82	79	85	81	78	83	80	77	76																			
5	93	84	79	74	91	84	78	74	82	77	73	80	76	73	79	75	72	71																			
6	88	79	73	69	87	79	73	69	77	72	68	76	71	68	74	71	68	66																			
7	84	75	69	65	82	74	68	64	73	68	64	71	67	64	70	66	63	62																			
8	80	70	64	60	79	70	64	60	69	64	60	68	63	60	67	63	59	58																			
9	76	66	61	57	75	66	60	57	65	60	56	64	60	56	63	59	56	55																			
10	72	63	57	53	71	62	57	53	62	57	53	61	56	53	60	56	53	52																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	736355	736355	736355
5°	737124	733734	733734
10°	727443	723152	720918
15°	703834	700507	695782
20°	651842	666063	644633
25°	524110	599135	517201
30°	345924	469762	337724
35°	216206	282086	212283
40°	141110	130731	135580
45°	67941	52153	64107
50°	17113	20790	16047
55°	9437	8546	9135
60°	6426	5423	6098
65°	4406	3995	4406
70°	3470	2962	3470
75°	2610	2610	2610
80°	1945	2945	2945
85°	1993	3875	3875



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	717.7	10.5
10°-20°	1959.9	28.7
20°-30°	2335.7	34.2
30°-40°	1322.6	19.4
40°-50°	408.9	6.0
50°-60°	56.8	0.8
60°-70°	19.4	0.3
70°-80°	7.7	0.1
80°-90°	3.3	0.0
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°	5013.4	73.4
0°-40°	6336.0	92.7
0°-60°	6801.6	99.6
0°-90°	6832.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6832.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7632	7632	7632	7632	7632	
5°	7610	7593	7575	7570	7575	721
15°	7046	7034	7013	6985	6965	1965
25°	4923	5210	5628	5219	4858	2195
35°	1836	2002	2395	2007	1802	1195
45°	498	580	382	564	470	411
55°	56	56	51	54	54	55
65°	19	19	18	19	19	20
75°	7	7	7	7	7	8
85°	2	4	4	4	4	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7631.5	7631.5	7631.5	7631.5	7631.5
2.5°	7633.2	7621.0	7617.4	7613.9	7621.0
5°	7610.4	7592.9	7575.4	7570.1	7575.4
7.5°	7545.6	7528.0	7498.2	7491.2	7496.5
10°	7424.6	7408.8	7380.8	7365.0	7358.0
12.5°	7265.1	7238.8	7212.5	7194.9	7177.4
15°	7045.9	7033.6	7012.6	6984.6	6965.3
17.5°	6742.6	6760.2	6772.4	6716.3	6665.5
20°	6348.2	6413.0	6486.7	6372.7	6278.0
22.5°	5732.8	5918.6	6106.2	5890.6	5680.2
25°	4922.9	5210.4	5627.6	5219.1	4858.0
27.5°	3977.9	4342.6	5000.0	4344.3	3925.3
30°	3104.8	3480.0	4216.3	3430.9	3031.2
32.5°	2384.3	2664.8	3294.2	2622.7	2333.4
35°	1835.5	2002.1	2394.8	2007.4	1802.2
37.5°	1427.1	1511.2	1611.1	1481.4	1385.0
40°	1120.3	1123.8	1037.9	1106.2	1076.4
42.5°	831.0	827.5	638.1	806.4	811.7
45°	497.9	580.3	382.2	564.5	469.8
47.5°	236.7	327.8	229.7	310.3	219.1
50°	114.0	157.8	138.5	147.3	106.9
52.5°	77.1	80.6	78.9	77.1	73.6
55°	56.1	56.1	50.8	54.3	54.3
57.5°	42.1	42.1	36.8	40.3	40.3
60°	33.3	31.6	28.1	31.6	31.6
62.5°	24.5	24.5	21.0	24.5	24.5
65°	19.3	19.3	17.5	19.3	19.3
67.5°	15.8	15.8	12.3	15.8	14.0
70°	12.3	12.3	10.5	12.3	12.3
72.5°	8.8	8.8	8.8	8.8	8.8
75°	7.0	7.0	7.0	7.0	7.0
77.5°	5.3	5.3	5.3	5.3	5.3
80°	3.5	3.5	5.3	5.3	5.3
82.5°	3.5	3.5	3.5	3.5	3.5
85°	1.8	3.5	3.5	3.5	3.5
87.5°	1.8	1.8	3.5	3.5	3.5
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)