

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: FAIL-SAFE

Report Number: P489548

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-5HI-50-120-EDD-90**

Issue Date: 3/11/2021

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: P489548
 TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-115-8)
 Test Lab: INNOVATION CENTER
 Issue Date: 3/11/2021
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: FAIL-SAFE
 Catalog Number: CLM-24-4-INS-A12125-LD4-5HI-50-120-EDD-90
 Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
 Light Source: -
 Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

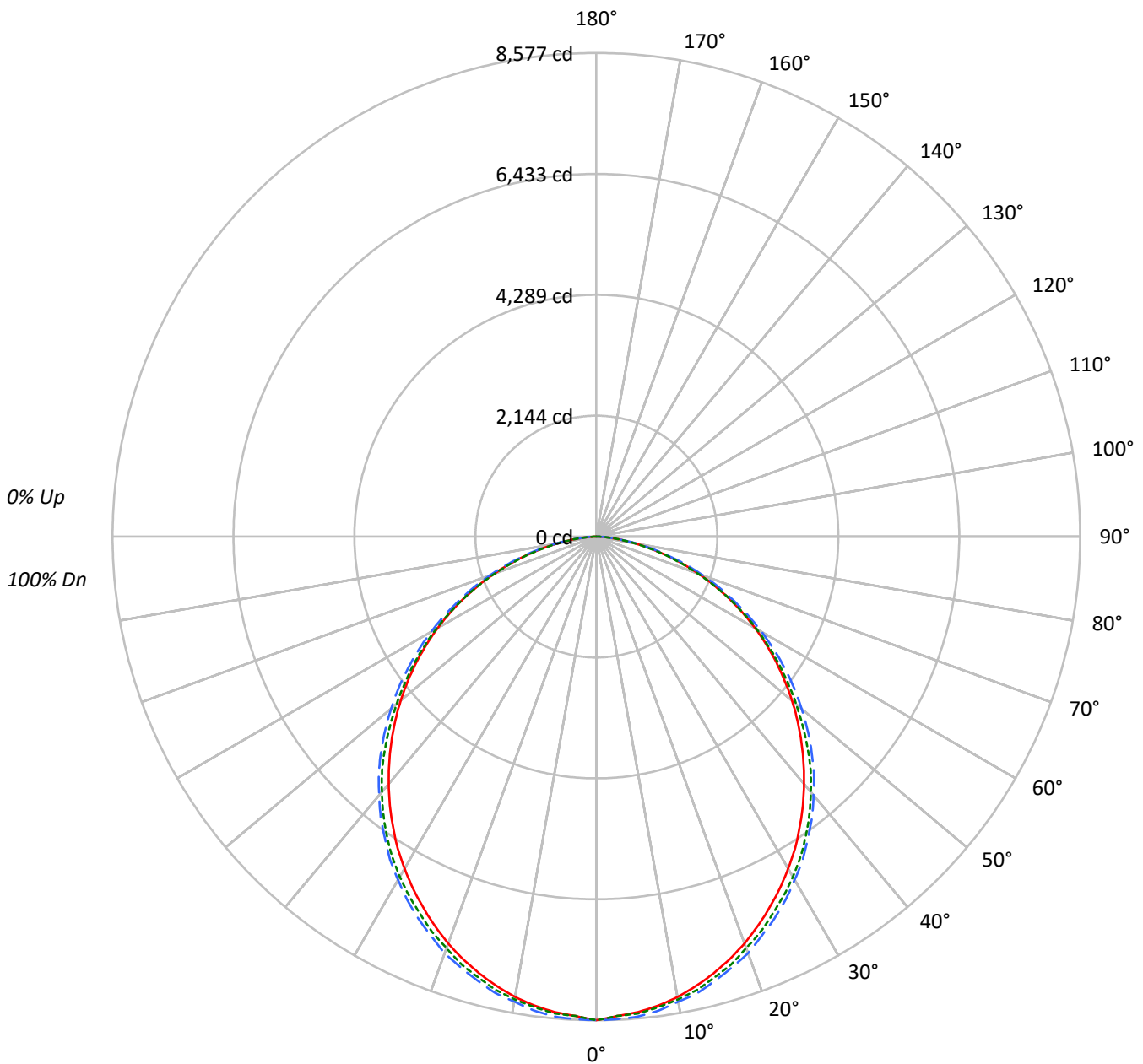
Lumens per Lamp: N/A
 Luminaire Lumens: 22548.4 lumens
 Efficiency: N/A
 Efficacy: 104.4 lumens/watt
 Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
 Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
 CIE Type: Direct

Input Watts (W): 216
 Input Voltage (V): NR
 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



— 0°-180° - - - 45°-225° - - - 90°-270°



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									20									
RC	80									70									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	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	102	102	102	102	102	102	102	102	102	102	102	100																	
1	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	87	87	87	87	87	87	87	87	87	87	87	85																	
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	73	73	73	73	73	73	73	73	73	73	73	71																	
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	62	62	62	62	62	62	62	62	62	62	62	60																	
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	54	54	54	54	54	54	54	54	54	54	54	51																	
5	77	64	55	48	75	63	54	48	61	53	48	59	52	47	57	51	47	47	47	47	47	47	47	47	47	47	47	47	45																	
6	71	58	49	42	69	57	48	42	55	47	42	53	47	41	52	46	41	41	41	41	41	41	41	41	41	41	41	41	39																	
7	66	52	44	38	64	51	43	37	50	43	37	49	42	37	47	41	37	37	37	37	37	37	37	37	37	37	37	37	35																	
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	33	33	33	33	33	33	33	33	33	33	33	31																	
9	57	44	36	30	56	43	35	30	42	35	30	41	35	30	40	34	30	30	30	30	30	30	30	30	30	30	30	30	28																	
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	27	27	27	27	27	27	27	27	27	27	27	25																	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11540	11540	11540
5°	11433	11540	11469
10°	11328	11443	11388
15°	11171	11352	11272
20°	10996	11257	11121
25°	10781	11094	10967
30°	10564	10922	10822
35°	10326	10735	10635
40°	10057	10520	10387
45°	9775	10268	10074
50°	9481	9940	9680
55°	9137	9565	9271
60°	8748	9111	8830
65°	8245	8560	8250
70°	7586	7892	7502
75°	6680	6982	6578
80°	5429	5664	5366
85°	3779	4028	3932



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	807.7	3.6
10°-20°	2289.0	10.2
20°-30°	3413.9	15.1
30°-40°	4045.5	17.9
40°-50°	4093.4	18.2
50°-60°	3575.0	15.9
60°-70°	2612.5	11.6
70°-80°	1390.1	6.2
80°-90°	321.3	1.4
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
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0°-30°	6510.6	28.9
0°-40°	10556.1	46.8
0°-60°	18224.6	80.8
0°-90°	22548.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	22548.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8577	8577	8577	8577	8577	
5°	8465	8481	8544	8564	8492	803
15°	8020	8074	8150	8199	8092	2261
25°	7262	7352	7473	7501	7387	3346
35°	6286	6385	6536	6581	6475	3931
45°	5137	5228	5396	5401	5294	3963
55°	3895	3974	4077	4018	3952	3482
65°	2590	2642	2689	2635	2591	2563
75°	1285	1314	1343	1294	1265	1366
85°	245	249	261	264	255	310
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8576.6	8576.6	8576.6	8576.6	8576.6
2.5°	8509.6	8537.3	8565.9	8578.4	8508.7
5°	8464.9	8481.0	8544.4	8564.1	8491.7
7.5°	8391.6	8415.8	8477.4	8486.4	8416.7
10°	8291.6	8334.4	8375.6	8420.2	8335.3
12.5°	8163.8	8221.9	8291.6	8299.6	8235.3
15°	8019.9	8073.5	8149.5	8198.6	8092.3
17.5°	7859.1	7910.9	8009.2	8018.1	7953.8
20°	7679.5	7743.8	7861.7	7882.3	7767.0
22.5°	7475.7	7562.4	7660.7	7680.3	7595.5
25°	7262.1	7351.5	7473.0	7500.7	7387.3
27.5°	7038.8	7124.5	7261.3	7280.9	7185.3
30°	6799.3	6879.7	7029.8	7062.9	6965.5
32.5°	6556.2	6636.6	6802.8	6830.5	6735.8
35°	6286.4	6384.6	6535.7	6581.2	6474.9
37.5°	6011.1	6106.7	6278.3	6319.4	6205.0
40°	5726.1	5820.8	5989.7	6023.6	5913.7
42.5°	5434.8	5529.5	5710.0	5715.4	5624.2
45°	5137.2	5228.4	5396.3	5400.8	5294.5
47.5°	4835.2	4927.2	5077.3	5060.4	4960.3
50°	4529.6	4617.1	4748.5	4714.5	4624.3
52.5°	4213.2	4298.1	4422.3	4366.9	4282.0
55°	3895.1	3973.8	4077.4	4018.4	3952.3
57.5°	3574.3	3653.9	3733.4	3673.5	3616.3
60°	3250.9	3320.6	3385.8	3325.0	3281.2
62.5°	2922.0	2981.9	3038.2	2980.1	2939.0
65°	2589.6	2642.3	2688.8	2635.2	2591.4
67.5°	2259.0	2303.7	2346.5	2291.1	2245.6
70°	1928.4	1966.8	2006.1	1948.9	1906.9
72.5°	1602.2	1636.2	1671.0	1615.6	1579.0
75°	1285.0	1314.5	1343.1	1293.9	1265.3
77.5°	982.0	1007.1	1026.7	995.5	967.8
80°	700.6	719.3	731.0	718.4	692.5
82.5°	450.4	463.8	470.0	469.1	452.2
85°	244.8	249.3	260.9	263.6	254.7
87.5°	94.7	101.0	103.7	111.7	102.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)