

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: P489755

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-1HI-20-120-EDD**

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: P489755
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P387254)
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-P12125-LD4-1HI-20-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

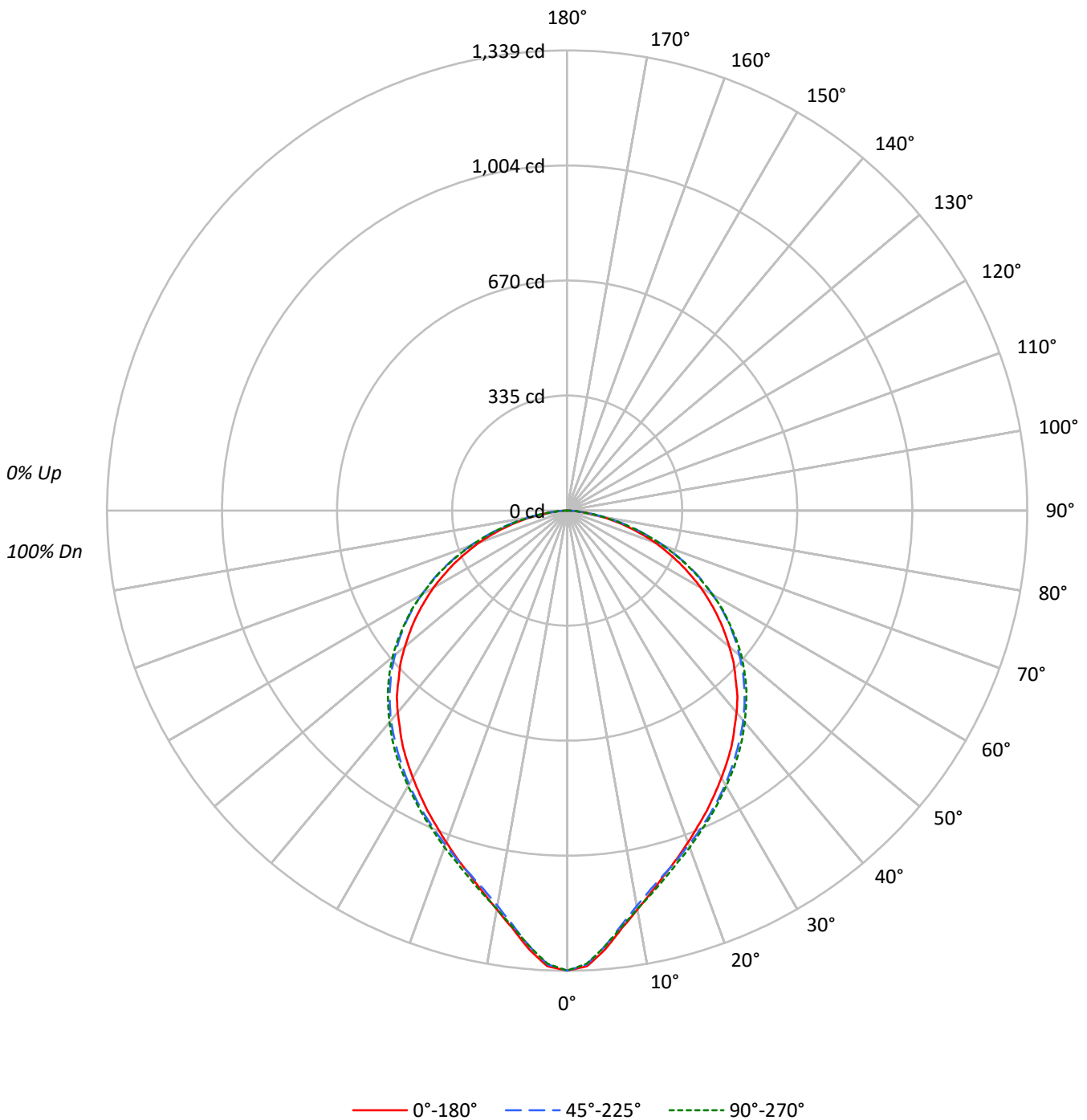
Lumens per Lamp: N/A
Luminaire Lumens: 3109.3 lumens
Efficiency: N/A
Efficacy: 72.0 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 43.2
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





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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1801	1801	1801
5°	1729	1717	1717
10°	1609	1595	1607
15°	1527	1524	1539
20°	1471	1482	1493
25°	1429	1453	1461
30°	1395	1429	1438
35°	1371	1411	1425
40°	1346	1401	1413
45°	1319	1388	1404
50°	1290	1370	1388
55°	1254	1350	1356
60°	1209	1313	1311
65°	1146	1263	1254
70°	1070	1178	1163
75°	944	1043	1033
80°	767	850	808
85°	533	542	522



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.3	3.8
10°-20°	309.8	10.0
20°-30°	450.5	14.5
30°-40°	536.1	17.2
40°-50°	556.7	17.9
50°-60°	504.3	16.2
60°-70°	380.6	12.2
70°-80°	207.4	6.7
80°-90°	45.6	1.5
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°	878.6	28.3
0°-40°	1414.8	45.5
0°-60°	2475.8	79.6
0°-90°	3109.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3109.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1339	1339	1339	1339	1339	
5°	1280	1277	1271	1271	1271	119
15°	1096	1094	1094	1102	1105	309
25°	963	971	978	986	984	444
35°	834	845	859	872	868	522
45°	693	705	729	737	738	536
55°	534	547	576	580	578	477
65°	360	370	397	396	394	356
75°	182	189	201	202	199	193
85°	34	35	35	35	34	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1338.6	1338.6	1338.6	1338.6	1338.6
2.5°	1326.9	1325.6	1321.2	1319.5	1319.2
5°	1280.4	1277.4	1271.4	1270.7	1271.4
7.5°	1224.9	1221.5	1215.5	1217.9	1220.9
10°	1178.0	1169.7	1167.3	1170.7	1176.4
12.5°	1136.2	1129.5	1127.5	1136.2	1140.3
15°	1096.4	1093.7	1094.4	1101.8	1105.1
17.5°	1062.0	1060.3	1064.7	1070.3	1072.0
20°	1027.5	1030.9	1034.9	1040.9	1042.9
22.5°	993.8	1000.1	1006.8	1014.8	1012.1
25°	962.6	970.7	978.4	986.4	984.1
27.5°	929.5	938.9	949.6	958.3	954.9
30°	897.7	909.5	919.8	930.5	925.5
32.5°	866.3	877.4	889.7	902.8	897.1
35°	834.5	844.6	859.0	872.0	867.7
37.5°	799.4	811.8	828.2	839.5	836.6
40°	766.6	778.0	797.7	805.1	804.4
42.5°	733.5	742.9	763.6	772.0	770.6
45°	693.1	705.4	729.2	737.2	737.9
47.5°	657.3	667.6	693.1	699.4	700.7
50°	616.1	629.2	654.6	662.3	663.3
52.5°	575.6	589.7	615.8	621.1	622.1
55°	534.5	547.2	575.6	579.7	578.0
57.5°	491.4	506.7	532.8	534.8	536.5
60°	449.2	462.6	488.0	490.7	487.0
62.5°	403.4	417.1	443.2	443.9	440.8
65°	359.9	370.3	396.7	396.0	394.0
67.5°	314.4	327.1	346.5	347.2	345.5
70°	271.9	280.6	299.4	299.7	295.7
72.5°	226.1	235.5	250.5	248.5	247.5
75°	181.6	189.0	200.7	202.0	198.7
77.5°	140.8	146.2	154.9	153.9	150.2
80°	99.0	103.4	109.7	108.4	104.3
82.5°	63.2	65.9	69.9	68.2	66.6
85°	34.5	34.8	35.1	34.8	33.8
87.5°	12.7	13.1	13.1	12.7	11.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)