

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: P489217

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-1HI-27-120-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: P489217
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-24-2-INS-P12125-LD4-1HI-27-120-EDD
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

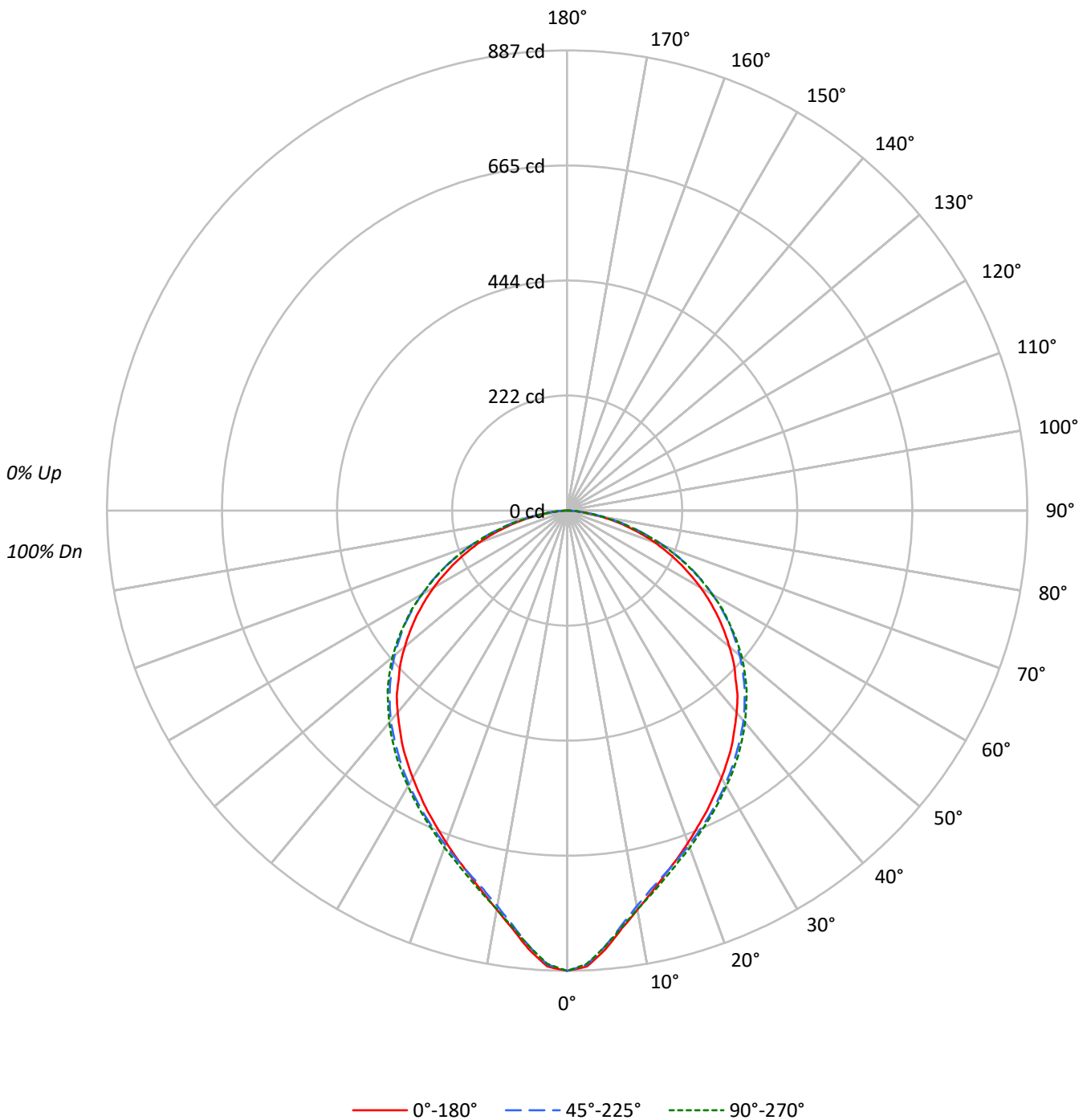
Lumens per Lamp: N/A
Luminaire Lumens: 2061.0 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 21.6
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°	2388	2388	2388
5°	2293	2276	2276
10°	2134	2114	2131
15°	2025	2021	2041
20°	1950	1964	1980
25°	1895	1926	1937
30°	1849	1895	1906
35°	1817	1871	1889
40°	1785	1858	1873
45°	1748	1839	1861
50°	1710	1816	1841
55°	1662	1790	1797
60°	1602	1741	1737
65°	1519	1674	1663
70°	1418	1561	1542
75°	1252	1383	1369
80°	1017	1127	1072
85°	704	719	692



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.4	3.8
10°-20°	205.4	10.0
20°-30°	298.6	14.5
30°-40°	355.4	17.2
40°-50°	369.0	17.9
50°-60°	334.3	16.2
60°-70°	252.3	12.2
70°-80°	137.4	6.7
80°-90°	30.2	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°	582.4	28.3
0°-40°	937.8	45.5
0°-60°	1641.1	79.6
0°-90°	2061.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2061.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	887	887	887	887	887	
5°	849	847	843	842	843	79
15°	727	725	725	730	732	205
25°	638	643	648	654	652	294
35°	553	560	569	578	575	346
45°	459	468	483	489	489	355
55°	354	363	382	384	383	316
65°	239	245	263	262	261	236
75°	120	125	133	134	132	128
85°	23	23	23	23	22	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	887.3	887.3	887.3	887.3	887.3
2.5°	879.5	878.6	875.8	874.6	874.4
5°	848.7	846.7	842.7	842.3	842.7
7.5°	811.9	809.7	805.7	807.3	809.3
10°	780.9	775.3	773.8	776.0	779.8
12.5°	753.1	748.7	747.4	753.1	755.8
15°	726.8	725.0	725.4	730.3	732.5
17.5°	703.9	702.8	705.7	709.5	710.6
20°	681.1	683.3	686.0	690.0	691.3
22.5°	658.7	662.9	667.4	672.7	670.9
25°	638.1	643.4	648.5	653.8	652.3
27.5°	616.1	622.3	629.4	635.2	633.0
30°	595.1	602.8	609.7	616.8	613.5
32.5°	574.2	581.6	589.8	598.4	594.6
35°	553.2	559.8	569.4	578.0	575.1
37.5°	529.9	538.1	548.9	556.5	554.5
40°	508.2	515.7	528.8	533.7	533.2
42.5°	486.2	492.4	506.2	511.7	510.8
45°	459.4	467.6	483.3	488.7	489.1
47.5°	435.7	442.5	459.4	463.6	464.5
50°	408.4	417.0	433.9	439.0	439.7
52.5°	381.6	390.9	408.2	411.7	412.4
55°	354.3	362.7	381.6	384.2	383.1
57.5°	325.7	335.9	353.2	354.5	355.6
60°	297.7	306.6	323.5	325.2	322.8
62.5°	267.4	276.5	293.8	294.2	292.2
65°	238.6	245.4	262.9	262.5	261.2
67.5°	208.4	216.8	229.7	230.1	229.0
70°	180.2	186.0	198.4	198.7	196.0
72.5°	149.9	156.1	166.1	164.7	164.1
75°	120.4	125.3	133.0	133.9	131.7
77.5°	93.3	96.9	102.7	102.0	99.5
80°	65.6	68.5	72.7	71.8	69.2
82.5°	41.9	43.7	46.3	45.2	44.1
85°	22.8	23.0	23.3	23.0	22.4
87.5°	8.4	8.7	8.7	8.4	7.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)