

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: P488765

Luminaire Tested: **CLM-12-4-INS-P12125-LD4-1LO-35-120-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: P488765
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-12-4-INS-P12125-LD4-1LO-35-120-EDD
Description: 1X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

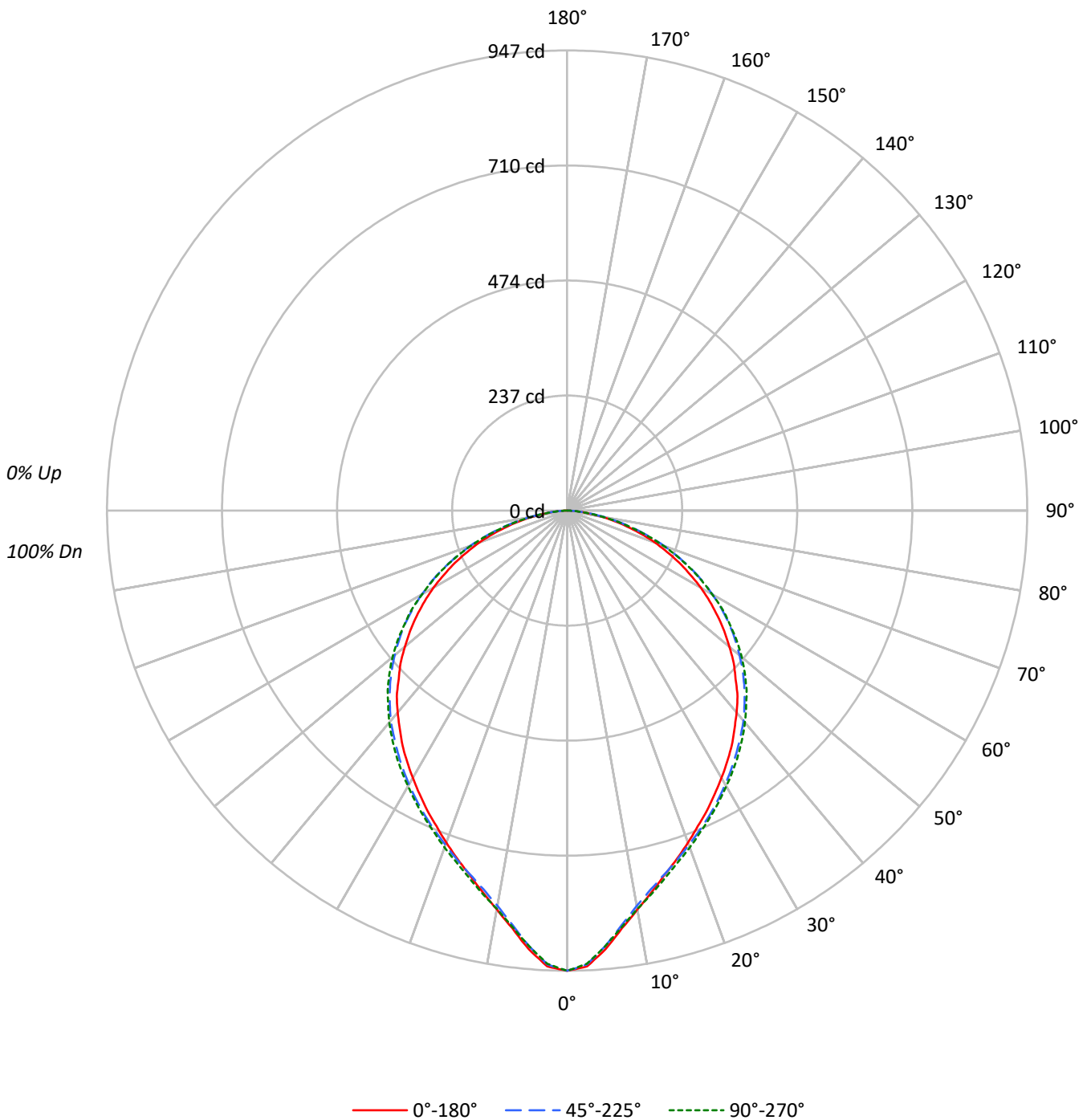
Lumens per Lamp: N/A
Luminaire Lumens: 2200.0 lumens
Efficiency: N/A
Efficacy: 94.0 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
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°	2549	2549	2549
5°	2447	2430	2430
10°	2278	2257	2274
15°	2161	2157	2178
20°	2082	2097	2113
25°	2022	2056	2067
30°	1974	2022	2035
35°	1940	1997	2017
40°	1905	1983	1999
45°	1866	1963	1987
50°	1825	1939	1965
55°	1774	1911	1919
60°	1710	1858	1855
65°	1621	1787	1775
70°	1514	1666	1646
75°	1336	1476	1462
80°	1085	1203	1144
85°	753	766	738



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.7	3.8
10°-20°	219.2	10.0
20°-30°	318.8	14.5
30°-40°	379.3	17.2
40°-50°	393.9	17.9
50°-60°	356.8	16.2
60°-70°	269.3	12.2
70°-80°	146.7	6.7
80°-90°	32.2	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°	621.7	28.3
0°-40°	1001.0	45.5
0°-60°	1751.8	79.6
0°-90°	2200.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2200.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	947	947	947	947	947	
5°	906	904	900	899	900	84
15°	776	774	774	780	782	219
25°	681	687	692	698	696	314
35°	590	598	608	617	614	369
45°	490	499	516	522	522	379
55°	378	387	407	410	409	338
65°	255	262	281	280	279	252
75°	128	134	142	143	141	137
85°	24	25	25	25	24	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	947.1	947.1	947.1	947.1	947.1
2.5°	938.8	937.9	934.8	933.6	933.4
5°	906.0	903.8	899.6	899.1	899.6
7.5°	866.7	864.3	860.0	861.7	863.8
10°	833.5	827.6	825.9	828.3	832.3
12.5°	803.9	799.2	797.8	803.9	806.8
15°	775.8	773.9	774.4	779.6	781.9
17.5°	751.4	750.2	753.3	757.3	758.5
20°	727.0	729.4	732.2	736.5	737.9
22.5°	703.1	707.6	712.4	718.0	716.2
25°	681.1	686.8	692.3	697.9	696.3
27.5°	657.7	664.3	671.9	678.0	675.7
30°	635.2	643.5	650.8	658.4	654.9
32.5°	613.0	620.8	629.5	638.8	634.7
35°	590.5	597.6	607.8	617.0	613.9
37.5°	565.6	574.4	586.0	594.0	591.9
40°	542.4	550.5	564.4	569.7	569.2
42.5°	519.0	525.6	540.3	546.2	545.3
45°	490.4	499.1	515.9	521.6	522.1
47.5°	465.0	472.4	490.4	494.9	495.8
50°	435.9	445.2	463.2	468.6	469.3
52.5°	407.3	417.2	435.7	439.5	440.2
55°	378.2	387.2	407.3	410.1	409.0
57.5°	347.7	358.5	377.0	378.4	379.6
60°	317.8	327.3	345.3	347.2	344.6
62.5°	285.4	295.1	313.6	314.0	311.9
65°	254.6	262.0	280.7	280.2	278.8
67.5°	222.5	231.4	245.2	245.7	244.5
70°	192.4	198.6	211.8	212.1	209.2
72.5°	160.0	166.6	177.3	175.8	175.1
75°	128.5	133.7	142.0	143.0	140.6
77.5°	99.6	103.4	109.6	108.9	106.3
80°	70.0	73.1	77.6	76.7	73.8
82.5°	44.7	46.6	49.5	48.3	47.1
85°	24.4	24.6	24.8	24.6	23.9
87.5°	9.0	9.2	9.2	9.0	8.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)