

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: P488463

Luminaire Tested: **CLM-12-2-INS-P12125-LD4-1HI-30-120-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: P488463
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-12-2-INS-P12125-LD4-1HI-30-120-EDD
Description: 1X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

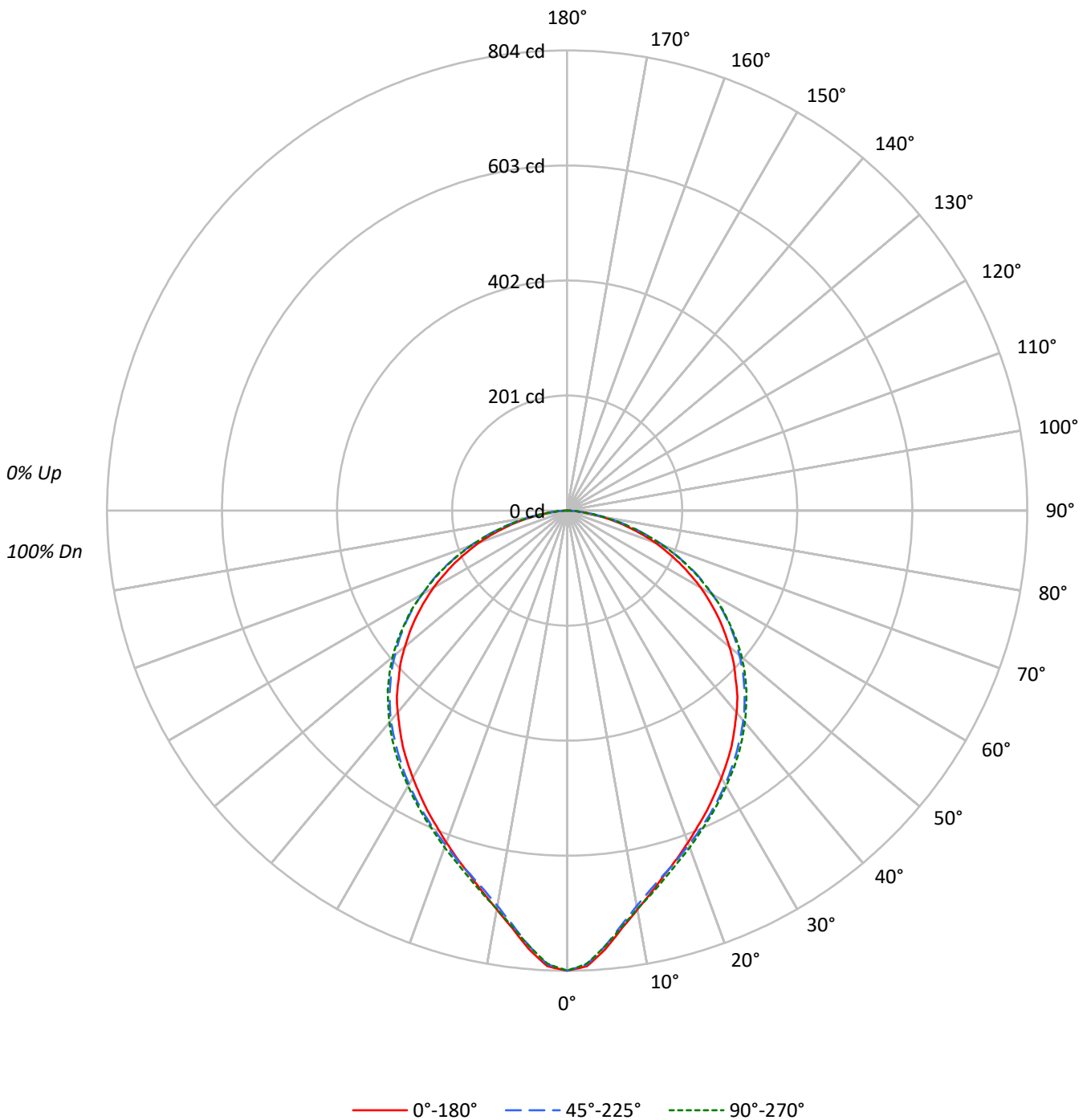
Lumens per Lamp: N/A
Luminaire Lumens: 1867.2 lumens
Efficiency: N/A
Efficacy: 86.4 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	4327	4327	4327
5°	4154	4125	4125
10°	3866	3831	3860
15°	3668	3662	3697
20°	3534	3560	3587
25°	3433	3489	3509
30°	3350	3433	3454
35°	3293	3389	3423
40°	3235	3366	3394
45°	3168	3333	3373
50°	3098	3291	3335
55°	3012	3244	3257
60°	2904	3155	3148
65°	2752	3033	3013
70°	2570	2829	2795
75°	2269	2506	2481
80°	1844	2042	1943
85°	1278	1303	1254



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.0	3.8
10°-20°	186.1	10.0
20°-30°	270.6	14.5
30°-40°	322.0	17.2
40°-50°	334.3	17.9
50°-60°	302.9	16.2
60°-70°	228.5	12.2
70°-80°	124.5	6.7
80°-90°	27.4	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°	527.6	28.3
0°-40°	849.6	45.5
0°-60°	1486.8	79.6
0°-90°	1867.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1867.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	804	804	804	804	804	
5°	769	767	764	763	764	71
15°	658	657	657	662	664	186
25°	578	583	588	592	591	266
35°	501	507	516	524	521	313
45°	416	424	438	443	443	322
55°	321	329	346	348	347	287
65°	216	222	238	238	237	214
75°	109	114	120	121	119	116
85°	21	21	21	21	20	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	803.9	803.9	803.9	803.9	803.9
2.5°	796.8	796.0	793.4	792.4	792.2
5°	768.9	767.1	763.5	763.1	763.5
7.5°	735.6	733.5	729.9	731.3	733.2
10°	707.4	702.4	701.0	703.0	706.4
12.5°	682.3	678.3	677.1	682.3	684.8
15°	658.4	656.8	657.2	661.7	663.6
17.5°	637.7	636.7	639.4	642.8	643.8
20°	617.1	619.1	621.5	625.1	626.3
22.5°	596.8	600.6	604.6	609.4	607.8
25°	578.1	582.9	587.5	592.3	590.9
27.5°	558.2	563.8	570.3	575.5	573.5
30°	539.1	546.1	552.4	558.8	555.8
32.5°	520.2	526.9	534.3	542.1	538.7
35°	501.2	507.2	515.8	523.7	521.0
37.5°	480.1	487.5	497.3	504.2	502.4
40°	460.4	467.2	479.1	483.5	483.1
42.5°	440.5	446.1	458.6	463.6	462.8
45°	416.2	423.6	437.9	442.7	443.1
47.5°	394.7	400.9	416.2	420.0	420.8
50°	370.0	377.8	393.1	397.7	398.3
52.5°	345.7	354.1	369.8	373.0	373.6
55°	321.0	328.6	345.7	348.1	347.1
57.5°	295.1	304.3	320.0	321.2	322.2
60°	269.8	277.8	293.1	294.7	292.5
62.5°	242.2	250.5	266.1	266.5	264.7
65°	216.1	222.4	238.2	237.8	236.6
67.5°	188.8	196.4	208.1	208.5	207.5
70°	163.3	168.5	179.8	180.0	177.6
72.5°	135.8	141.4	150.4	149.2	148.6
75°	109.1	113.5	120.5	121.3	119.3
77.5°	84.6	87.8	93.0	92.4	90.2
80°	59.5	62.1	65.9	65.1	62.7
82.5°	38.0	39.6	42.0	41.0	40.0
85°	20.7	20.9	21.1	20.9	20.3
87.5°	7.6	7.8	7.8	7.6	7.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)