

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: P488467

Luminaire Tested: **CLM-12-2-INS-P12125-LD4-1HI-40-120-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: P488467
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-40-120-EDD
Description: 1X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

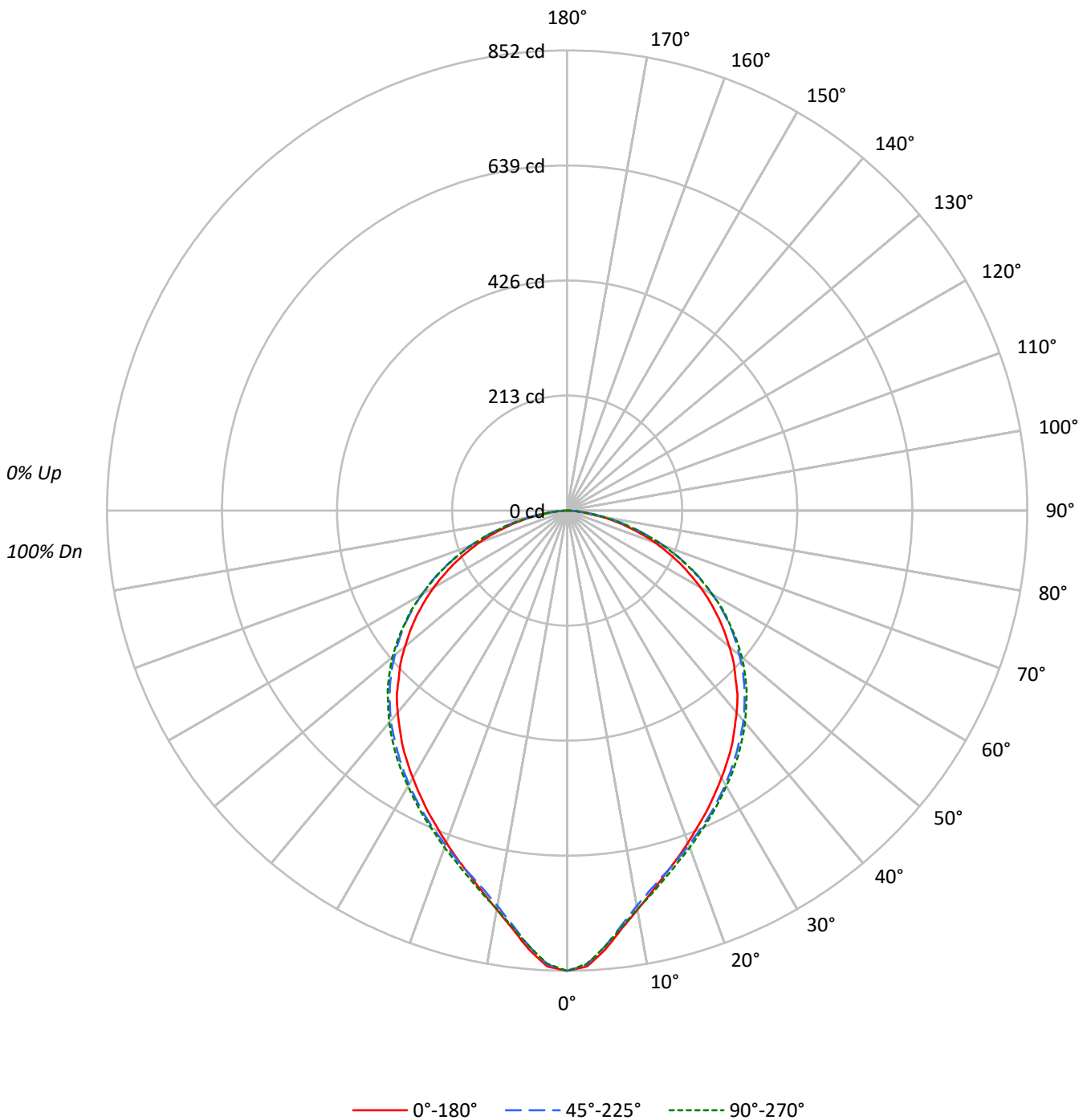
Lumens per Lamp: N/A
Luminaire Lumens: 1979.4 lumens
Efficiency: N/A
Efficacy: 91.6 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.23
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	4587	4587	4587
5°	4404	4373	4373
10°	4099	4061	4093
15°	3889	3882	3920
20°	3746	3773	3802
25°	3639	3698	3720
30°	3552	3639	3662
35°	3491	3593	3629
40°	3429	3568	3598
45°	3358	3533	3575
50°	3284	3489	3536
55°	3193	3439	3453
60°	3078	3344	3337
65°	2918	3216	3194
70°	2724	2999	2961
75°	2404	2658	2630
80°	1953	2163	2058
85°	1352	1383	1328



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.3	3.8
10°-20°	197.2	10.0
20°-30°	286.8	14.5
30°-40°	341.3	17.2
40°-50°	354.4	17.9
50°-60°	321.1	16.2
60°-70°	242.3	12.2
70°-80°	132.0	6.7
80°-90°	29.0	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°	559.4	28.3
0°-40°	900.7	45.5
0°-60°	1576.1	79.6
0°-90°	1979.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1979.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	852	852	852	852	852	
5°	815	813	809	809	809	76
15°	698	696	697	701	704	197
25°	613	618	623	628	626	282
35°	531	538	547	555	552	332
45°	441	449	464	469	470	341
55°	340	348	366	369	368	304
65°	229	236	252	252	251	226
75°	116	120	128	129	126	123
85°	22	22	22	22	22	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	852.2	852.2	852.2	852.2	852.2
2.5°	844.7	843.9	841.1	840.0	839.8
5°	815.1	813.2	809.4	808.9	809.4
7.5°	779.8	777.6	773.8	775.3	777.2
10°	750.0	744.6	743.1	745.3	748.9
12.5°	723.3	719.1	717.8	723.3	725.9
15°	698.0	696.3	696.7	701.4	703.5
17.5°	676.1	675.0	677.8	681.4	682.5
20°	654.1	656.3	658.8	662.7	663.9
22.5°	632.6	636.7	640.9	646.0	644.3
25°	612.8	617.9	622.8	627.9	626.5
27.5°	591.7	597.7	604.5	610.1	607.9
30°	571.5	579.0	585.6	592.4	589.2
32.5°	551.5	558.5	566.4	574.7	571.1
35°	531.3	537.7	546.8	555.1	552.4
37.5°	508.9	516.8	527.2	534.5	532.6
40°	488.0	495.3	507.8	512.5	512.1
42.5°	467.0	472.9	486.1	491.4	490.6
45°	441.2	449.1	464.2	469.3	469.7
47.5°	418.4	425.0	441.2	445.2	446.1
50°	392.2	400.5	416.7	421.6	422.3
52.5°	366.5	375.4	392.0	395.4	396.1
55°	340.3	348.4	366.5	369.0	368.0
57.5°	312.8	322.6	339.2	340.5	341.5
60°	286.0	294.5	310.7	312.4	310.0
62.5°	256.8	265.5	282.1	282.6	280.6
65°	229.1	235.7	252.5	252.1	250.8
67.5°	200.1	208.2	220.6	221.0	220.0
70°	173.1	178.6	190.6	190.8	188.2
72.5°	143.9	149.9	159.5	158.2	157.6
75°	115.6	120.3	127.8	128.6	126.5
77.5°	89.6	93.1	98.6	98.0	95.6
80°	63.0	65.8	69.8	69.0	66.4
82.5°	40.2	42.0	44.5	43.4	42.4
85°	21.9	22.1	22.4	22.1	21.5
87.5°	8.1	8.3	8.3	8.1	7.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)