

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: P489232

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-1LO-35-120-EDD-90**

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: P489232
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-LD4-1LO-35-120-EDD-90
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

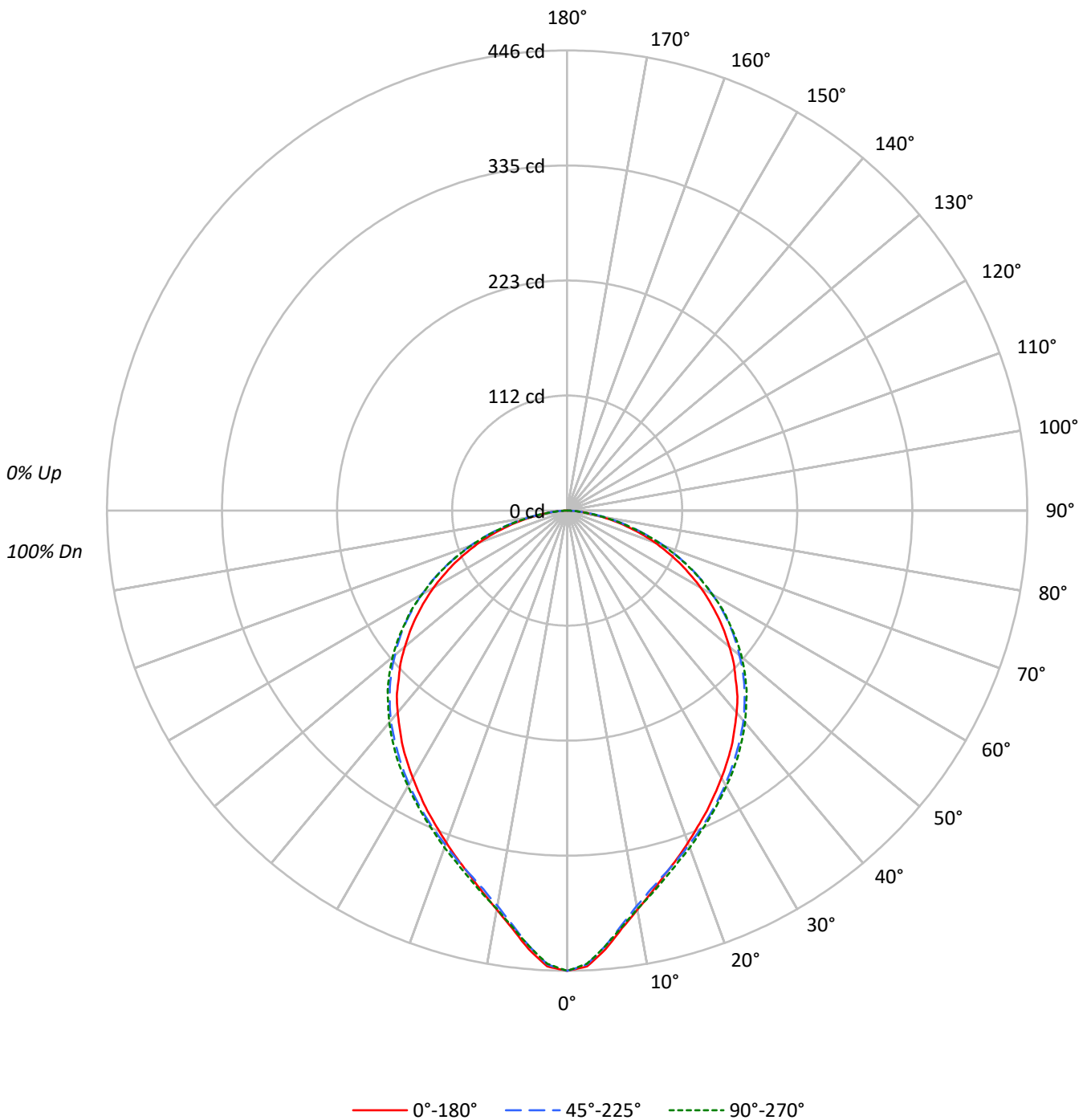
Lumens per Lamp: N/A
Luminaire Lumens: 1036.2 lumens
Efficiency: N/A
Efficacy: 88.6 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
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°	1200	1200	1200
5°	1153	1145	1145
10°	1073	1063	1071
15°	1018	1016	1026
20°	981	988	995
25°	953	968	974
30°	930	952	958
35°	914	941	950
40°	898	934	942
45°	879	925	936
50°	859	913	925
55°	836	900	904
60°	806	875	873
65°	763	842	836
70°	713	785	775
75°	629	696	688
80°	511	567	539
85°	355	361	349



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.4	3.8
10°-20°	103.3	10.0
20°-30°	150.2	14.5
30°-40°	178.7	17.2
40°-50°	185.5	17.9
50°-60°	168.1	16.2
60°-70°	126.8	12.2
70°-80°	69.1	6.7
80°-90°	15.2	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°	292.8	28.3
0°-40°	471.5	45.5
0°-60°	825.1	79.6
0°-90°	1036.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1036.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	446	446	446	446	446	
5°	427	426	424	424	424	40
15°	365	364	365	367	368	103
25°	321	324	326	329	328	148
35°	278	282	286	291	289	174
45°	231	235	243	246	246	179
55°	178	182	192	193	193	159
65°	120	123	132	132	131	119
75°	60	63	67	67	66	64
85°	12	12	12	12	11	14
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	446.1	446.1	446.1	446.1	446.1
2.5°	442.2	441.8	440.3	439.7	439.6
5°	426.7	425.7	423.7	423.5	423.7
7.5°	408.2	407.1	405.1	405.9	406.9
10°	392.6	389.8	389.0	390.1	392.0
12.5°	378.7	376.4	375.8	378.7	380.0
15°	365.4	364.5	364.7	367.2	368.3
17.5°	353.9	353.4	354.8	356.7	357.3
20°	342.4	343.6	344.9	346.9	347.6
22.5°	331.2	333.3	335.5	338.2	337.3
25°	320.8	323.5	326.1	328.7	327.9
27.5°	309.8	312.9	316.5	319.4	318.2
30°	299.2	303.1	306.5	310.1	308.4
32.5°	288.7	292.4	296.5	300.9	299.0
35°	278.1	281.5	286.3	290.6	289.2
37.5°	266.4	270.5	276.0	279.8	278.8
40°	255.5	259.3	265.9	268.3	268.1
42.5°	244.4	247.6	254.5	257.3	256.8
45°	231.0	235.1	243.0	245.7	245.9
47.5°	219.0	222.5	231.0	233.1	233.5
50°	205.3	209.7	218.1	220.7	221.0
52.5°	191.8	196.5	205.2	207.0	207.3
55°	178.1	182.4	191.8	193.2	192.6
57.5°	163.7	168.9	177.6	178.2	178.8
60°	149.7	154.2	162.6	163.5	162.3
62.5°	134.4	139.0	147.7	147.9	146.9
65°	119.9	123.4	132.2	132.0	131.3
67.5°	104.8	109.0	115.5	115.7	115.2
70°	90.6	93.5	99.8	99.9	98.5
72.5°	75.4	78.5	83.5	82.8	82.5
75°	60.5	63.0	66.9	67.3	66.2
77.5°	46.9	48.7	51.6	51.3	50.0
80°	33.0	34.4	36.6	36.1	34.8
82.5°	21.1	22.0	23.3	22.7	22.2
85°	11.5	11.6	11.7	11.6	11.3
87.5°	4.2	4.3	4.3	4.2	3.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)