

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: P489239

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-1STD-20-120-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: P489239
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-LD4-1STD-20-120-EDD
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

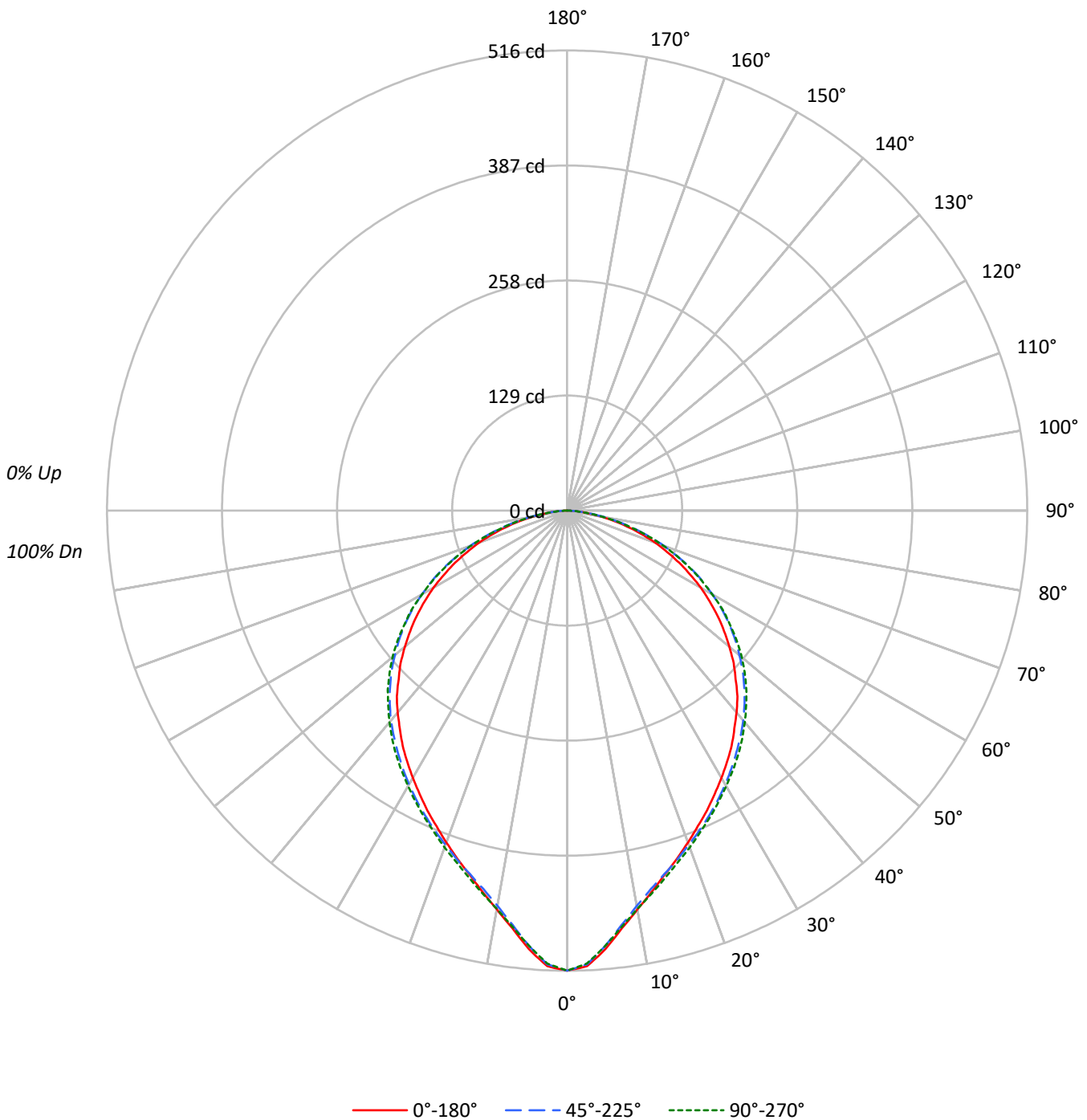
Lumens per Lamp: N/A
Luminaire Lumens: 1198.3 lumens
Efficiency: N/A
Efficacy: 72.2 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.23
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 16.6
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°	1388	1388	1388
5°	1333	1324	1324
10°	1241	1229	1239
15°	1177	1175	1187
20°	1134	1142	1151
25°	1102	1120	1126
30°	1075	1102	1108
35°	1056	1087	1099
40°	1038	1080	1089
45°	1016	1069	1082
50°	994	1056	1070
55°	966	1041	1045
60°	932	1012	1010
65°	883	974	967
70°	825	908	897
75°	728	804	796
80°	592	656	623
85°	411	417	401



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.6	3.8
10°-20°	119.4	10.0
20°-30°	173.6	14.5
30°-40°	206.6	17.2
40°-50°	214.5	17.9
50°-60°	194.4	16.2
60°-70°	146.7	12.2
70°-80°	79.9	6.7
80°-90°	17.6	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°	338.6	28.3
0°-40°	545.2	45.5
0°-60°	954.2	79.6
0°-90°	1198.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1198.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	516	516	516	516	516	
5°	494	492	490	490	490	46
15°	423	422	422	425	426	119
25°	371	374	377	380	379	171
35°	322	326	331	336	334	201
45°	267	272	281	284	284	206
55°	206	211	222	223	223	184
65°	139	143	153	153	152	137
75°	70	73	77	78	77	75
85°	13	13	14	13	13	17
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	515.9	515.9	515.9	515.9	515.9
2.5°	511.4	510.9	509.2	508.5	508.4
5°	493.5	492.3	490.0	489.7	490.0
7.5°	472.1	470.8	468.5	469.4	470.5
10°	454.0	450.8	449.9	451.2	453.4
12.5°	437.9	435.3	434.5	437.9	439.4
15°	422.6	421.5	421.8	424.6	425.9
17.5°	409.3	408.6	410.3	412.5	413.2
20°	396.0	397.3	398.8	401.2	401.9
22.5°	383.0	385.4	388.0	391.1	390.1
25°	371.0	374.1	377.1	380.1	379.2
27.5°	358.2	361.8	366.0	369.3	368.0
30°	346.0	350.5	354.5	358.6	356.7
32.5°	333.9	338.1	342.9	347.9	345.7
35°	321.6	325.5	331.0	336.1	334.4
37.5°	308.1	312.9	319.2	323.6	322.4
40°	295.5	299.8	307.4	310.3	310.0
42.5°	282.7	286.3	294.3	297.5	297.0
45°	267.1	271.9	281.0	284.1	284.4
47.5°	253.3	257.3	267.1	269.5	270.1
50°	237.4	242.5	252.3	255.2	255.6
52.5°	221.8	227.3	237.3	239.4	239.8
55°	206.0	210.9	221.8	223.4	222.8
57.5°	189.4	195.3	205.4	206.1	206.8
60°	173.1	178.3	188.1	189.1	187.7
62.5°	155.5	160.7	170.8	171.1	169.9
65°	138.7	142.7	152.9	152.6	151.8
67.5°	121.2	126.1	133.5	133.8	133.2
70°	104.8	108.1	115.4	115.5	114.0
72.5°	87.1	90.7	96.5	95.8	95.4
75°	70.0	72.8	77.3	77.9	76.6
77.5°	54.3	56.3	59.7	59.3	57.9
80°	38.2	39.8	42.3	41.8	40.2
82.5°	24.4	25.4	26.9	26.3	25.7
85°	13.3	13.4	13.5	13.4	13.0
87.5°	4.9	5.0	5.0	4.9	4.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)