

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: P489231

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-1LO-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: P489231
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-30-120-EDD
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

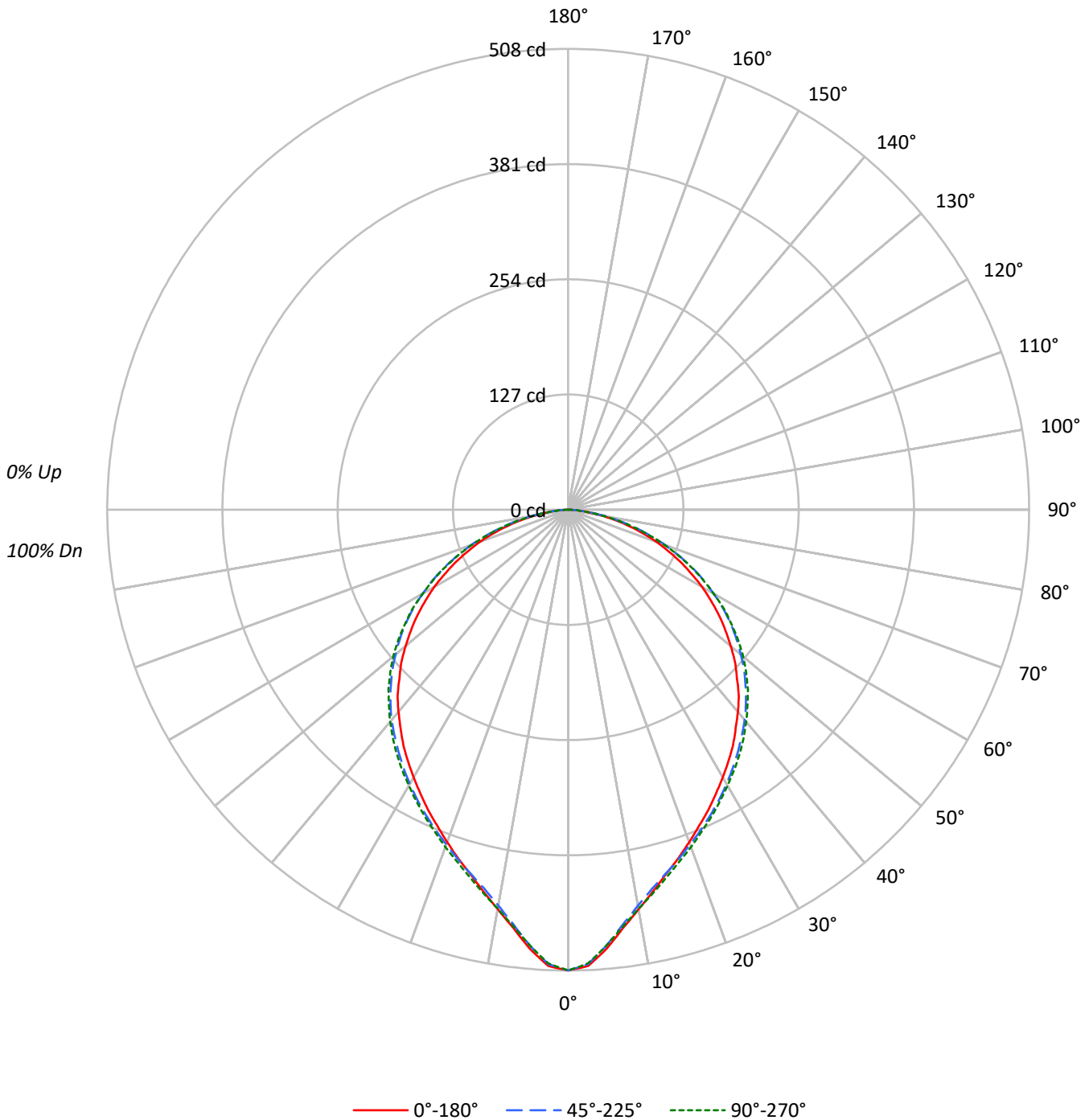
Lumens per Lamp: N/A
Luminaire Lumens: 1179.8 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	1367	1367	1367
5°	1312	1303	1303
10°	1221	1210	1220
15°	1159	1157	1168
20°	1117	1125	1133
25°	1085	1102	1109
30°	1058	1084	1091
35°	1040	1071	1081
40°	1022	1063	1072
45°	1001	1053	1066
50°	979	1040	1054
55°	951	1025	1029
60°	917	997	995
65°	870	958	952
70°	812	894	883
75°	716	792	784
80°	583	645	614
85°	404	411	395



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.9	3.8
10°-20°	117.6	10.0
20°-30°	171.0	14.5
30°-40°	203.4	17.2
40°-50°	211.2	17.9
50°-60°	191.4	16.2
60°-70°	144.4	12.2
70°-80°	78.7	6.7
80°-90°	17.3	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°	333.4	28.3
0°-40°	536.8	45.5
0°-60°	939.4	79.6
0°-90°	1179.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1179.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	508	508	508	508	508	
5°	486	485	482	482	482	45
15°	416	415	415	418	419	117
25°	365	368	371	374	373	168
35°	317	320	326	331	329	198
45°	263	268	277	280	280	203
55°	203	208	218	220	219	181
65°	137	140	150	150	150	135
75°	69	72	76	77	75	73
85°	13	13	13	13	13	17
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	507.9	507.9	507.9	507.9	507.9
2.5°	503.5	503.0	501.3	500.7	500.6
5°	485.8	484.7	482.4	482.2	482.4
7.5°	464.8	463.5	461.2	462.1	463.2
10°	447.0	443.8	442.9	444.2	446.4
12.5°	431.1	428.6	427.8	431.1	432.7
15°	416.0	415.0	415.3	418.1	419.3
17.5°	403.0	402.3	404.0	406.1	406.8
20°	389.9	391.2	392.7	395.0	395.7
22.5°	377.1	379.5	382.0	385.1	384.1
25°	365.3	368.3	371.2	374.3	373.4
27.5°	352.7	356.3	360.3	363.6	362.3
30°	340.6	345.1	349.0	353.1	351.2
32.5°	328.7	332.9	337.6	342.5	340.4
35°	316.7	320.5	325.9	330.9	329.2
37.5°	303.3	308.0	314.2	318.6	317.4
40°	290.9	295.2	302.7	305.5	305.2
42.5°	278.3	281.9	289.8	292.9	292.4
45°	263.0	267.7	276.7	279.7	280.0
47.5°	249.4	253.3	263.0	265.4	265.9
50°	233.8	238.7	248.4	251.3	251.7
52.5°	218.4	223.7	233.7	235.7	236.1
55°	202.8	207.6	218.4	220.0	219.3
57.5°	186.4	192.3	202.2	202.9	203.6
60°	170.4	175.5	185.2	186.2	184.8
62.5°	153.1	158.3	168.2	168.4	167.3
65°	136.6	140.5	150.5	150.3	149.5
67.5°	119.3	124.1	131.5	131.7	131.1
70°	103.2	106.5	113.6	113.7	112.2
72.5°	85.8	89.3	95.1	94.3	93.9
75°	68.9	71.7	76.2	76.7	75.4
77.5°	53.4	55.5	58.8	58.4	57.0
80°	37.6	39.2	41.6	41.1	39.6
82.5°	24.0	25.0	26.5	25.9	25.3
85°	13.1	13.2	13.3	13.2	12.8
87.5°	4.8	5.0	5.0	4.8	4.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)