

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: P489281

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-2STD-35-120-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: P489281
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-LD4-2STD-35-120-EDD
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

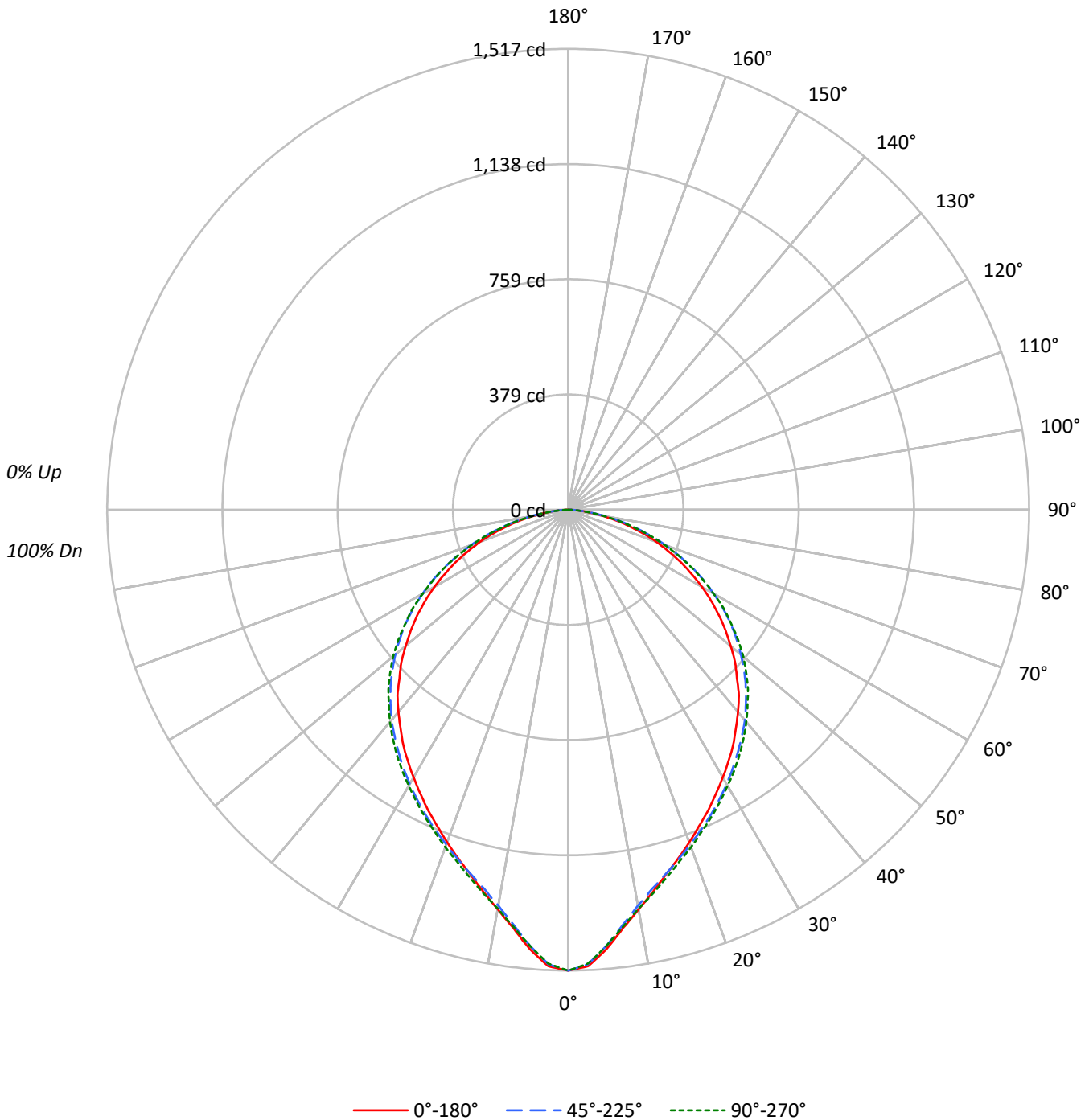
Lumens per Lamp: N/A
Luminaire Lumens: 3524.5 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
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°	4083	4083	4083
5°	3921	3893	3893
10°	3649	3616	3644
15°	3462	3456	3490
20°	3335	3359	3385
25°	3240	3293	3312
30°	3162	3240	3260
35°	3108	3199	3231
40°	3053	3177	3203
45°	2990	3145	3183
50°	2924	3106	3148
55°	2843	3061	3074
60°	2740	2977	2971
65°	2597	2863	2844
70°	2425	2670	2637
75°	2141	2365	2341
80°	1739	1928	1833
85°	1207	1229	1183



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.1	3.8
10°-20°	351.2	10.0
20°-30°	510.7	14.5
30°-40°	607.7	17.2
40°-50°	631.0	17.9
50°-60°	571.7	16.2
60°-70°	431.4	12.2
70°-80°	235.0	6.7
80°-90°	51.7	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°	996.0	28.3
0°-40°	1603.7	45.5
0°-60°	2806.4	79.6
0°-90°	3524.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3524.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1517	1517	1517	1517	1517	
5°	1451	1448	1441	1440	1441	135
15°	1243	1240	1241	1249	1253	351
25°	1091	1100	1109	1118	1116	503
35°	946	957	974	988	984	591
45°	786	800	826	836	836	607
55°	606	620	652	657	655	541
65°	408	420	450	449	447	403
75°	206	214	228	229	225	219
85°	39	39	40	39	38	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1517.4	1517.4	1517.4	1517.4	1517.4
2.5°	1504.1	1502.6	1497.6	1495.7	1495.3
5°	1451.4	1448.0	1441.1	1440.4	1441.1
7.5°	1388.4	1384.6	1377.8	1380.5	1383.9
10°	1335.4	1325.9	1323.2	1327.0	1333.5
12.5°	1288.0	1280.4	1278.1	1288.0	1292.5
15°	1242.8	1239.8	1240.6	1248.9	1252.7
17.5°	1203.8	1201.9	1206.8	1213.3	1215.2
20°	1164.7	1168.5	1173.1	1179.9	1182.2
22.5°	1126.5	1133.6	1141.2	1150.3	1147.3
25°	1091.2	1100.3	1109.0	1118.1	1115.5
27.5°	1053.6	1064.3	1076.4	1086.3	1082.5
30°	1017.6	1030.9	1042.7	1054.8	1049.1
32.5°	982.0	994.5	1008.5	1023.3	1016.9
35°	946.0	957.3	973.7	988.5	983.5
37.5°	906.2	920.2	938.8	951.6	948.3
40°	869.0	881.9	904.3	912.6	911.8
42.5°	831.5	842.1	865.6	875.1	873.6
45°	785.6	799.6	826.5	835.7	836.4
47.5°	745.0	756.8	785.6	792.8	794.3
50°	698.4	713.2	742.0	750.7	751.9
52.5°	652.5	668.4	698.0	704.1	705.2
55°	605.9	620.3	652.5	657.1	655.2
57.5°	557.0	574.4	604.0	606.3	608.2
60°	509.2	524.4	553.2	556.2	552.0
62.5°	457.3	472.8	502.4	503.1	499.7
65°	407.9	419.7	449.7	448.9	446.6
67.5°	356.4	370.8	392.8	393.5	391.7
70°	308.2	318.1	339.3	339.7	335.2
72.5°	256.3	266.9	284.0	281.7	280.6
75°	205.9	214.2	227.5	229.0	225.2
77.5°	159.6	165.7	175.5	174.4	170.2
80°	112.2	117.2	124.4	122.9	118.3
82.5°	71.6	74.7	79.3	77.3	75.4
85°	39.1	39.4	39.8	39.4	38.3
87.5°	14.4	14.8	14.8	14.4	13.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)