

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: P489370

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-5LO-20-120-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: P489370
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-LD4-5LO-20-120-EDD-90
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

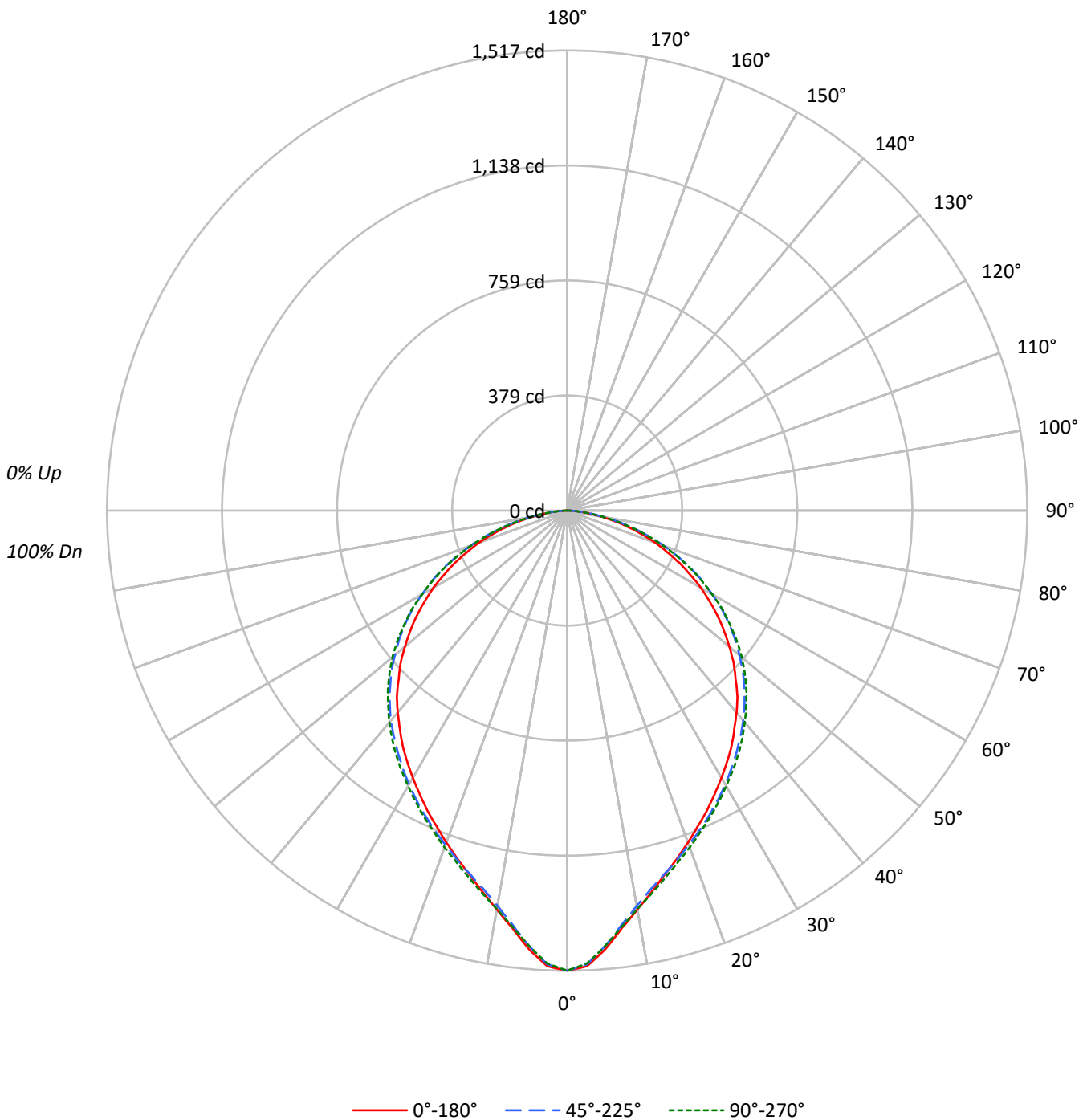
Lumens per Lamp: N/A
Luminaire Lumens: 3523.0 lumens
Efficiency: N/A
Efficacy: 60.2 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 58.5
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°	4081	4081	4081
5°	3919	3891	3891
10°	3647	3614	3642
15°	3461	3455	3489
20°	3334	3358	3384
25°	3238	3291	3311
30°	3161	3238	3259
35°	3106	3197	3230
40°	3051	3175	3202
45°	2989	3144	3181
50°	2923	3105	3146
55°	2841	3060	3073
60°	2739	2976	2970
65°	2597	2862	2842
70°	2424	2669	2636
75°	2140	2364	2340
80°	1739	1926	1832
85°	1204	1229	1183



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.0	3.8
10°-20°	351.0	10.0
20°-30°	510.5	14.5
30°-40°	607.5	17.2
40°-50°	630.8	17.9
50°-60°	571.4	16.2
60°-70°	431.2	12.2
70°-80°	234.9	6.7
80°-90°	51.6	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°	995.6	28.3
0°-40°	1603.0	45.5
0°-60°	2805.2	79.6
0°-90°	3523.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3523.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1517	1517	1517	1517	1517	
5°	1451	1447	1440	1440	1440	135
15°	1242	1239	1240	1248	1252	351
25°	1091	1100	1108	1118	1115	503
35°	946	957	973	988	983	591
45°	785	799	826	835	836	607
55°	606	620	652	657	655	541
65°	408	420	450	449	446	403
75°	206	214	227	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°	1516.7	1516.7	1516.7	1516.7	1516.7
2.5°	1503.4	1501.9	1497.0	1495.1	1494.7
5°	1450.8	1447.3	1440.5	1439.8	1440.5
7.5°	1387.8	1384.0	1377.2	1379.9	1383.3
10°	1334.8	1325.3	1322.6	1326.4	1332.9
12.5°	1287.4	1279.8	1277.5	1287.4	1292.0
15°	1242.3	1239.3	1240.0	1248.4	1252.2
17.5°	1203.3	1201.4	1206.3	1212.8	1214.7
20°	1164.2	1168.0	1172.6	1179.4	1181.7
22.5°	1126.0	1133.2	1140.8	1149.8	1146.8
25°	1090.7	1099.8	1108.5	1117.6	1115.0
27.5°	1053.2	1063.8	1075.9	1085.8	1082.0
30°	1017.2	1030.5	1042.2	1054.3	1048.7
32.5°	981.6	994.1	1008.1	1022.9	1016.4
35°	945.6	956.9	973.2	988.0	983.1
37.5°	905.8	919.8	938.4	951.2	947.9
40°	868.6	881.5	903.9	912.2	911.5
42.5°	831.1	841.7	865.2	874.7	873.2
45°	785.3	799.3	826.2	835.3	836.0
47.5°	744.7	756.5	785.3	792.5	794.0
50°	698.1	712.9	741.7	750.4	751.5
52.5°	652.2	668.1	697.7	703.8	704.9
55°	605.6	620.0	652.2	656.8	654.9
57.5°	556.7	574.2	603.7	606.0	607.9
60°	509.0	524.1	552.9	556.0	551.8
62.5°	457.1	472.6	502.2	502.9	499.5
65°	407.8	419.5	449.5	448.7	446.4
67.5°	356.2	370.6	392.6	393.4	391.5
70°	308.1	318.0	339.2	339.6	335.0
72.5°	256.2	266.8	283.8	281.6	280.5
75°	205.8	214.1	227.4	228.9	225.1
77.5°	159.6	165.6	175.5	174.3	170.2
80°	112.2	117.1	124.3	122.8	118.2
82.5°	71.6	74.7	79.2	77.3	75.4
85°	39.0	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)