

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: P489279

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-2STD-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: P489279
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-30-120-EDD
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

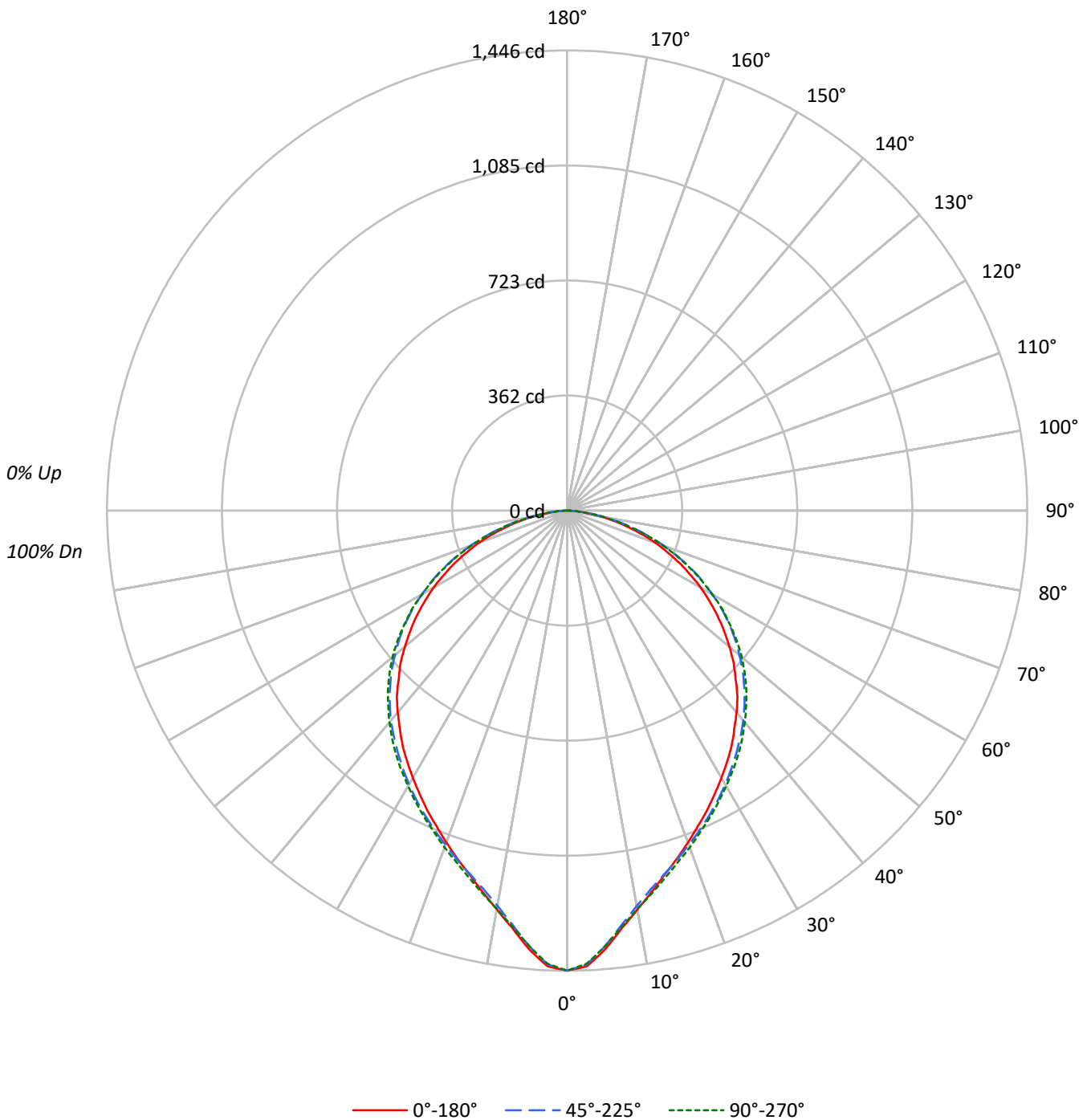
Lumens per Lamp: N/A
Luminaire Lumens: 3358.0 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	3890	3890	3890
5°	3735	3709	3709
10°	3477	3445	3472
15°	3299	3293	3325
20°	3178	3201	3225
25°	3087	3137	3156
30°	3013	3087	3106
35°	2961	3048	3078
40°	2909	3027	3052
45°	2849	2997	3033
50°	2786	2959	2999
55°	2708	2917	2928
60°	2611	2836	2831
65°	2475	2728	2709
70°	2311	2544	2512
75°	2040	2254	2231
80°	1657	1836	1746
85°	1149	1170	1127



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.7	3.8
10°-20°	334.6	10.0
20°-30°	486.6	14.5
30°-40°	579.0	17.2
40°-50°	601.2	17.9
50°-60°	544.7	16.2
60°-70°	411.0	12.2
70°-80°	224.0	6.7
80°-90°	49.2	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°	948.9	28.3
0°-40°	1527.9	45.5
0°-60°	2673.8	79.6
0°-90°	3358.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3358.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1446	1446	1446	1446	1446	
5°	1383	1380	1373	1372	1373	128
15°	1184	1181	1182	1190	1194	334
25°	1040	1048	1057	1065	1063	479
35°	901	912	928	942	937	563
45°	748	762	788	796	797	579
55°	577	591	622	626	624	515
65°	389	400	428	428	426	384
75°	196	204	217	218	215	209
85°	37	38	38	38	36	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1445.7	1445.7	1445.7	1445.7	1445.7
2.5°	1433.0	1431.6	1426.9	1425.1	1424.7
5°	1382.8	1379.6	1373.1	1372.3	1373.1
7.5°	1322.8	1319.2	1312.7	1315.3	1318.5
10°	1272.3	1263.2	1260.7	1264.3	1270.5
12.5°	1227.1	1219.9	1217.7	1227.1	1231.5
15°	1184.1	1181.2	1182.0	1189.9	1193.5
17.5°	1146.9	1145.1	1149.8	1156.0	1157.8
20°	1109.7	1113.3	1117.7	1124.2	1126.3
22.5°	1073.2	1080.1	1087.3	1096.0	1093.1
25°	1039.6	1048.3	1056.6	1065.3	1062.8
27.5°	1003.9	1014.0	1025.6	1034.9	1031.3
30°	969.5	982.2	993.4	1004.9	999.5
32.5°	935.6	947.5	960.9	975.0	968.8
35°	901.3	912.1	927.7	941.8	937.1
37.5°	863.4	876.7	894.4	906.7	903.5
40°	828.0	840.2	861.6	869.5	868.8
42.5°	792.2	802.3	824.7	833.7	832.3
45°	748.5	761.8	787.5	796.2	796.9
47.5°	709.8	721.0	748.5	755.3	756.8
50°	665.4	679.5	706.9	715.2	716.3
52.5°	621.7	636.8	665.0	670.8	671.9
55°	577.2	591.0	621.7	626.0	624.2
57.5°	530.7	547.3	575.5	577.6	579.4
60°	485.1	499.6	527.0	529.9	526.0
62.5°	435.7	450.5	478.6	479.4	476.1
65°	388.7	399.9	428.4	427.7	425.5
67.5°	339.5	353.3	374.2	375.0	373.2
70°	293.7	303.1	323.3	323.7	319.3
72.5°	244.2	254.3	270.6	268.4	267.3
75°	196.2	204.1	216.8	218.2	214.6
77.5°	152.1	157.9	167.3	166.2	162.2
80°	106.9	111.6	118.5	117.1	112.7
82.5°	68.3	71.2	75.5	73.7	71.9
85°	37.2	37.6	37.9	37.6	36.5
87.5°	13.7	14.1	14.1	13.7	12.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)