

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: P489783

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-1STD-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: P489783
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-24-4-INS-P12125-LD4-1STD-30-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

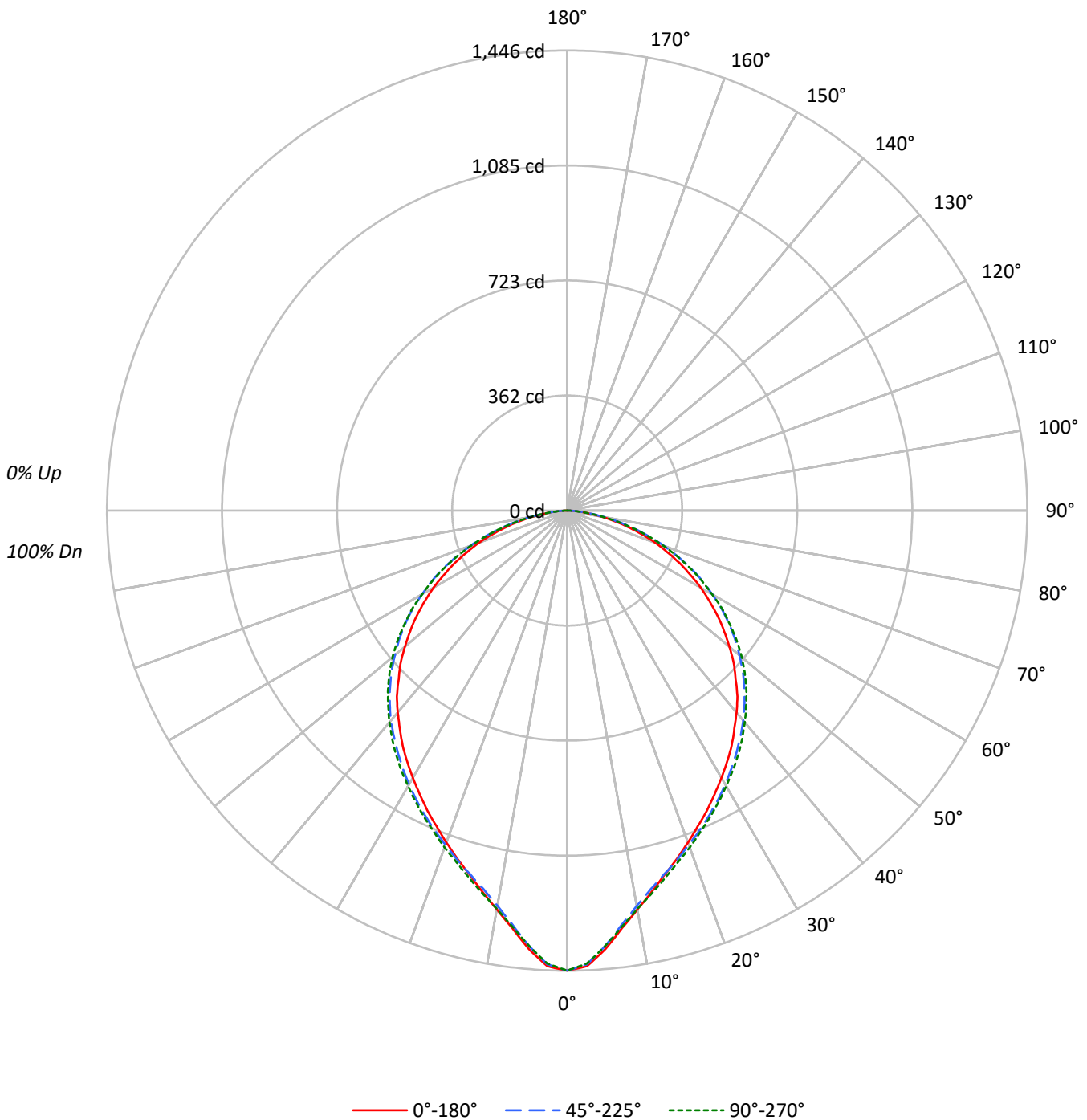
Lumens per Lamp: N/A
Luminaire Lumens: 3358.2 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	1945	1945	1945
5°	1868	1855	1855
10°	1738	1722	1736
15°	1650	1646	1662
20°	1589	1600	1613
25°	1544	1569	1578
30°	1506	1543	1553
35°	1480	1524	1539
40°	1454	1513	1526
45°	1424	1498	1516
50°	1393	1480	1500
55°	1354	1458	1464
60°	1305	1418	1415
65°	1238	1364	1355
70°	1155	1272	1257
75°	1020	1127	1116
80°	828	918	873
85°	574	585	563



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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°	949.0	28.3
0°-40°	1528.0	45.5
0°-60°	2673.9	79.6
0°-90°	3358.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3358.2	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°	1433.1	1431.6	1426.9	1425.1	1424.7
5°	1382.9	1379.6	1373.1	1372.4	1373.1
7.5°	1322.9	1319.3	1312.8	1315.3	1318.6
10°	1272.3	1263.3	1260.7	1264.4	1270.5
12.5°	1227.1	1219.9	1217.7	1227.1	1231.5
15°	1184.2	1181.3	1182.0	1190.0	1193.5
17.5°	1147.0	1145.2	1149.9	1156.0	1157.8
20°	1109.8	1113.4	1117.7	1124.2	1126.4
22.5°	1073.3	1080.1	1087.4	1096.0	1093.1
25°	1039.7	1048.3	1056.7	1065.3	1062.8
27.5°	1003.9	1014.0	1025.6	1035.0	1031.4
30°	969.6	982.2	993.4	1005.0	999.6
32.5°	935.6	947.6	960.9	975.0	968.9
35°	901.3	912.2	927.7	941.8	937.1
37.5°	863.4	876.7	894.4	906.7	903.5
40°	828.0	840.3	861.6	869.5	868.8
42.5°	792.2	802.3	824.7	833.8	832.3
45°	748.5	761.9	787.5	796.2	796.9
47.5°	709.9	721.1	748.5	755.4	756.8
50°	665.4	679.5	707.0	715.3	716.4
52.5°	621.7	636.9	665.1	670.8	671.9
55°	577.3	591.0	621.7	626.1	624.2
57.5°	530.7	547.3	575.5	577.6	579.4
60°	485.1	499.6	527.1	529.9	526.0
62.5°	435.7	450.5	478.7	479.4	476.1
65°	388.7	399.9	428.4	427.7	425.5
67.5°	339.6	353.3	374.3	375.0	373.2
70°	293.7	303.1	323.3	323.7	319.4
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)