

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: P489285

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-2STD-50-120-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: P489285
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-50-120-EDD
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

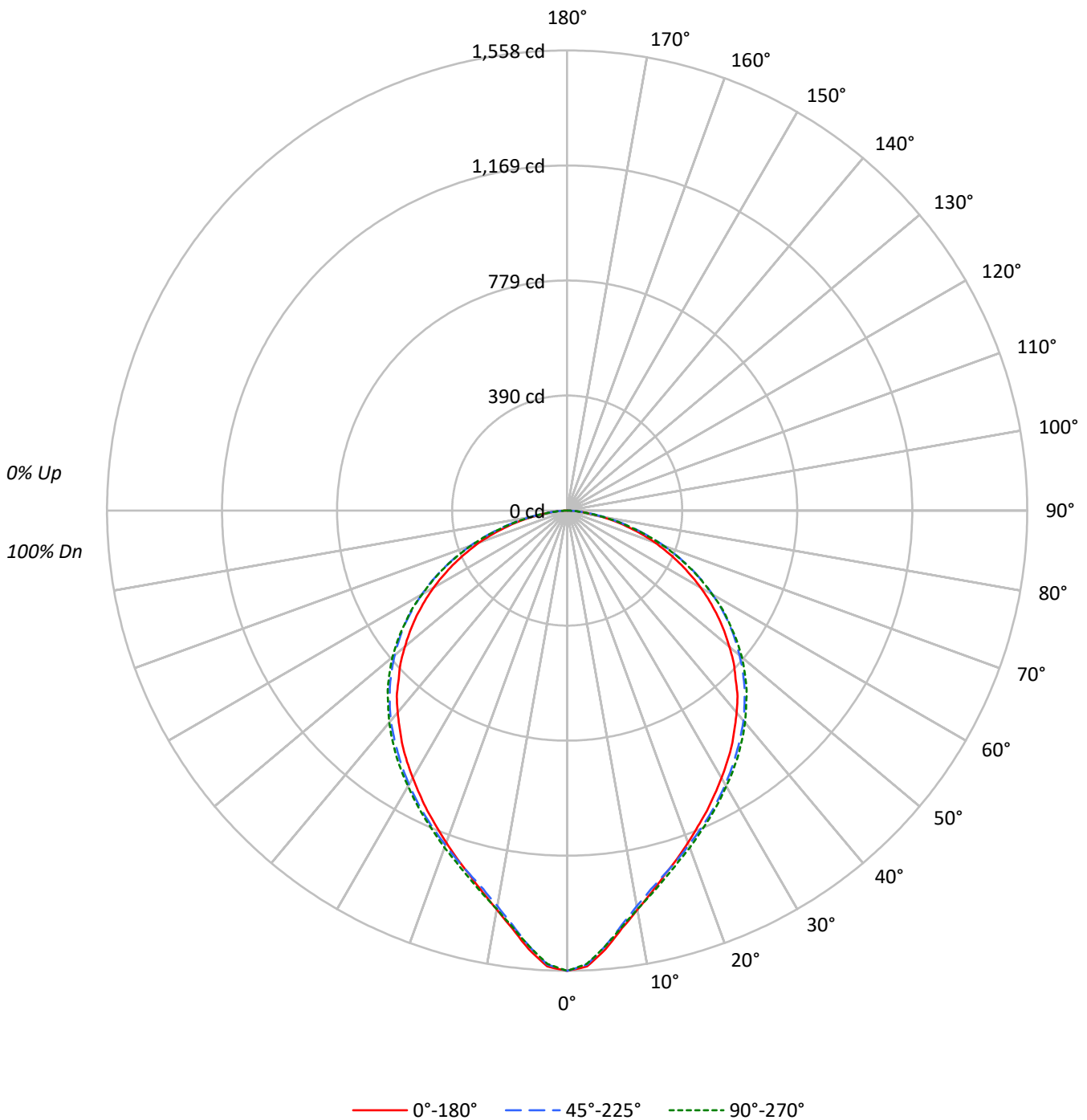
Lumens per Lamp: N/A
Luminaire Lumens: 3620.1 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	4194	4194	4194
5°	4027	3998	3998
10°	3748	3714	3742
15°	3556	3550	3585
20°	3426	3450	3477
25°	3328	3382	3402
30°	3248	3328	3348
35°	3192	3285	3319
40°	3136	3263	3290
45°	3071	3231	3269
50°	3003	3190	3233
55°	2920	3144	3157
60°	2815	3058	3052
65°	2668	2940	2921
70°	2491	2742	2709
75°	2199	2430	2405
80°	1787	1979	1883
85°	1238	1263	1213



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.7	3.8
10°-20°	360.7	10.0
20°-30°	524.6	14.5
30°-40°	624.2	17.2
40°-50°	648.1	17.9
50°-60°	587.2	16.2
60°-70°	443.1	12.2
70°-80°	241.4	6.7
80°-90°	53.0	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°	1023.0	28.3
0°-40°	1647.2	45.5
0°-60°	2882.5	79.6
0°-90°	3620.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3620.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1558	1558	1558	1558	1558	
5°	1491	1487	1480	1480	1480	138
15°	1276	1273	1274	1283	1287	360
25°	1121	1130	1139	1148	1146	516
35°	972	983	1000	1015	1010	607
45°	807	821	849	858	859	624
55°	622	637	670	675	673	556
65°	419	431	462	461	459	414
75°	212	220	234	235	231	225
85°	40	40	41	40	39	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1558.5	1558.5	1558.5	1558.5	1558.5
2.5°	1544.9	1543.3	1538.3	1536.3	1535.9
5°	1490.7	1487.2	1480.2	1479.5	1480.2
7.5°	1426.1	1422.2	1415.2	1417.9	1421.4
10°	1371.6	1361.8	1359.1	1363.0	1369.6
12.5°	1322.9	1315.1	1312.8	1322.9	1327.6
15°	1276.5	1273.4	1274.2	1282.8	1286.7
17.5°	1236.5	1234.5	1239.6	1246.2	1248.1
20°	1196.3	1200.2	1204.9	1211.9	1214.2
22.5°	1157.0	1164.4	1172.2	1181.5	1178.4
25°	1120.8	1130.1	1139.1	1148.4	1145.7
27.5°	1082.2	1093.1	1105.6	1115.7	1111.8
30°	1045.2	1058.9	1070.9	1083.4	1077.6
32.5°	1008.6	1021.5	1035.9	1051.1	1044.5
35°	971.6	983.3	1000.1	1015.3	1010.2
37.5°	930.8	945.1	964.2	977.5	974.0
40°	892.6	905.8	928.8	937.4	936.6
42.5°	854.0	864.9	889.1	898.8	897.3
45°	806.9	821.3	849.0	858.3	859.1
47.5°	765.2	777.3	806.9	814.3	815.9
50°	717.3	732.5	762.1	771.1	772.3
52.5°	670.2	686.6	716.9	723.2	724.4
55°	622.3	637.1	670.2	674.9	672.9
57.5°	572.1	590.0	620.4	622.7	624.6
60°	523.0	538.6	568.2	571.3	567.0
62.5°	469.7	485.6	516.0	516.8	513.3
65°	419.0	431.1	461.8	461.1	458.7
67.5°	366.1	380.8	403.5	404.2	402.3
70°	316.6	326.7	348.5	348.9	344.3
72.5°	263.3	274.2	291.7	289.4	288.2
75°	211.5	220.0	233.7	235.2	231.3
77.5°	164.0	170.2	180.3	179.2	174.8
80°	115.3	120.3	127.7	126.2	121.5
82.5°	73.6	76.7	81.4	79.4	77.5
85°	40.1	40.5	40.9	40.5	39.3
87.5°	14.8	15.2	15.2	14.8	13.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)