

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: P489251

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-2HI-20-120-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: P489251
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-LD4-2HI-20-120-EDD
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

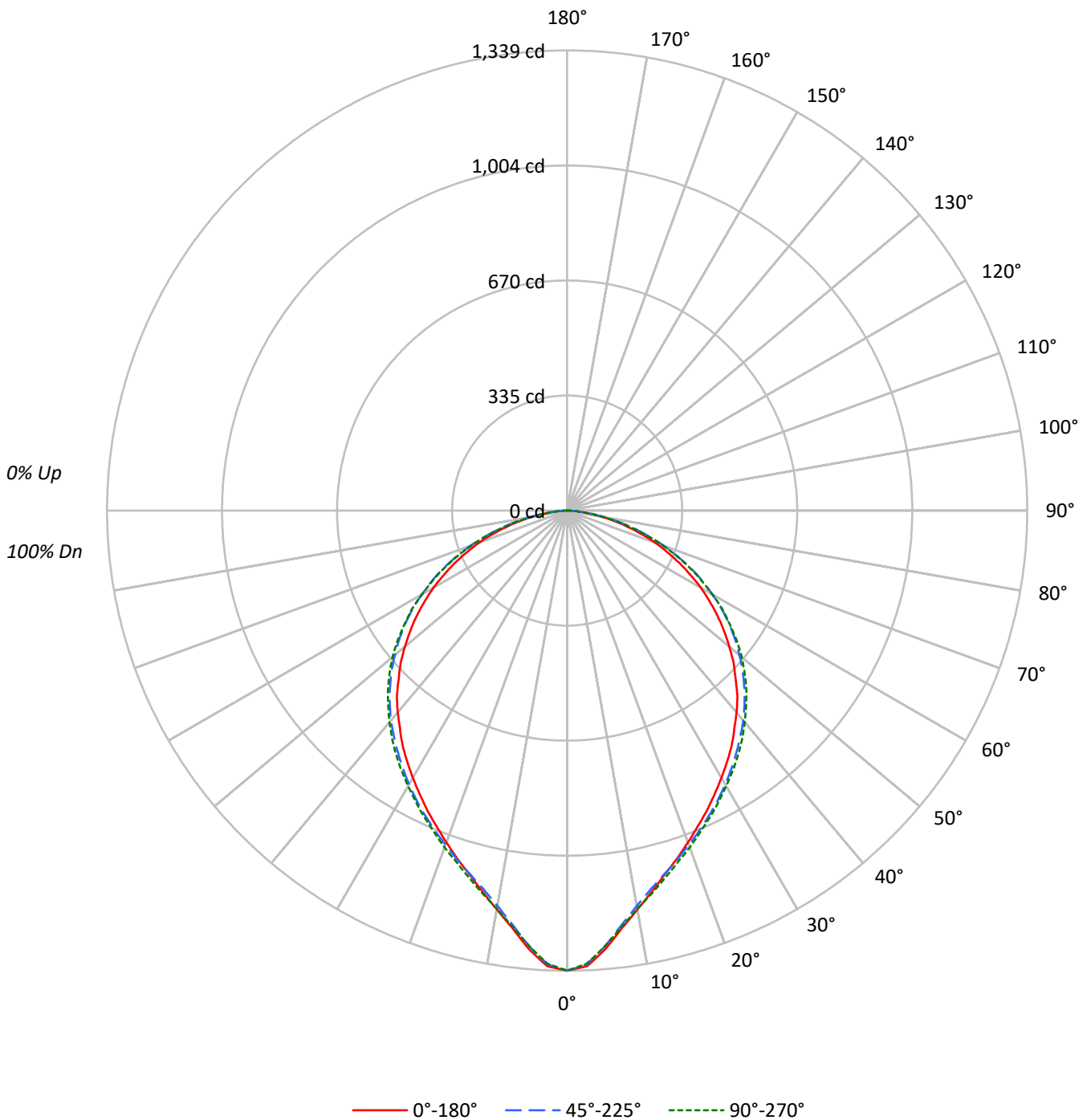
Lumens per Lamp: N/A
Luminaire Lumens: 3109.2 lumens
Efficiency: N/A
Efficacy: 72.0 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 43.2
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	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					100			
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84					84			
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70					70			
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59					59			
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51					51			
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44					44			
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38					38			
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34					34			
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30					30			
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27					27			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3602	3602	3602
5°	3459	3434	3434
10°	3219	3190	3214
15°	3054	3049	3079
20°	2942	2964	2987
25°	2858	2905	2922
30°	2789	2858	2876
35°	2741	2822	2850
40°	2693	2802	2826
45°	2637	2775	2808
50°	2579	2740	2777
55°	2508	2700	2712
60°	2418	2626	2621
65°	2292	2526	2509
70°	2139	2356	2327
75°	1888	2087	2066
80°	1534	1700	1616
85°	1065	1084	1044



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.3	3.8
10°-20°	309.8	10.0
20°-30°	450.5	14.5
30°-40°	536.1	17.2
40°-50°	556.7	17.9
50°-60°	504.3	16.2
60°-70°	380.6	12.2
70°-80°	207.4	6.7
80°-90°	45.6	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°	878.6	28.3
0°-40°	1414.7	45.5
0°-60°	2475.7	79.6
0°-90°	3109.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3109.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1339	1339	1339	1339	1339	
5°	1280	1277	1271	1271	1271	119
15°	1096	1094	1094	1102	1105	309
25°	963	971	978	986	984	444
35°	834	844	859	872	868	522
45°	693	705	729	737	738	536
55°	534	547	576	580	578	477
65°	360	370	397	396	394	356
75°	182	189	201	202	199	193
85°	34	35	35	35	34	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1338.6	1338.6	1338.6	1338.6	1338.6
2.5°	1326.8	1325.5	1321.2	1319.5	1319.1
5°	1280.4	1277.3	1271.3	1270.7	1271.3
7.5°	1224.8	1221.5	1215.5	1217.8	1220.8
10°	1178.0	1169.7	1167.3	1170.6	1176.3
12.5°	1136.2	1129.5	1127.5	1136.2	1140.2
15°	1096.4	1093.7	1094.4	1101.8	1105.1
17.5°	1062.0	1060.3	1064.6	1070.3	1072.0
20°	1027.5	1030.9	1034.9	1040.9	1042.9
22.5°	993.7	1000.1	1006.8	1014.8	1012.1
25°	962.6	970.6	978.3	986.4	984.0
27.5°	929.5	938.8	949.6	958.3	954.9
30°	897.7	909.4	919.8	930.5	925.5
32.5°	866.3	877.3	889.7	902.7	897.1
35°	834.5	844.5	858.9	872.0	867.6
37.5°	799.4	811.8	828.1	839.5	836.5
40°	766.6	778.0	797.7	805.1	804.4
42.5°	733.5	742.9	763.6	772.0	770.6
45°	693.0	705.4	729.1	737.2	737.8
47.5°	657.2	667.6	693.0	699.4	700.7
50°	616.1	629.1	654.6	662.2	663.3
52.5°	575.6	589.7	615.8	621.1	622.1
55°	534.5	547.2	575.6	579.7	578.0
57.5°	491.3	506.7	532.8	534.8	536.5
60°	449.2	462.6	488.0	490.7	487.0
62.5°	403.4	417.1	443.2	443.8	440.8
65°	359.9	370.3	396.7	396.0	394.0
67.5°	314.4	327.1	346.5	347.2	345.5
70°	271.9	280.6	299.4	299.7	295.7
72.5°	226.1	235.5	250.5	248.5	247.5
75°	181.6	189.0	200.7	202.0	198.7
77.5°	140.8	146.2	154.9	153.9	150.2
80°	99.0	103.3	109.7	108.4	104.3
82.5°	63.2	65.9	69.9	68.2	66.6
85°	34.5	34.8	35.1	34.8	33.8
87.5°	12.7	13.0	13.0	12.7	11.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)