

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: P489250

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-2HI-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: P489250
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-90
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

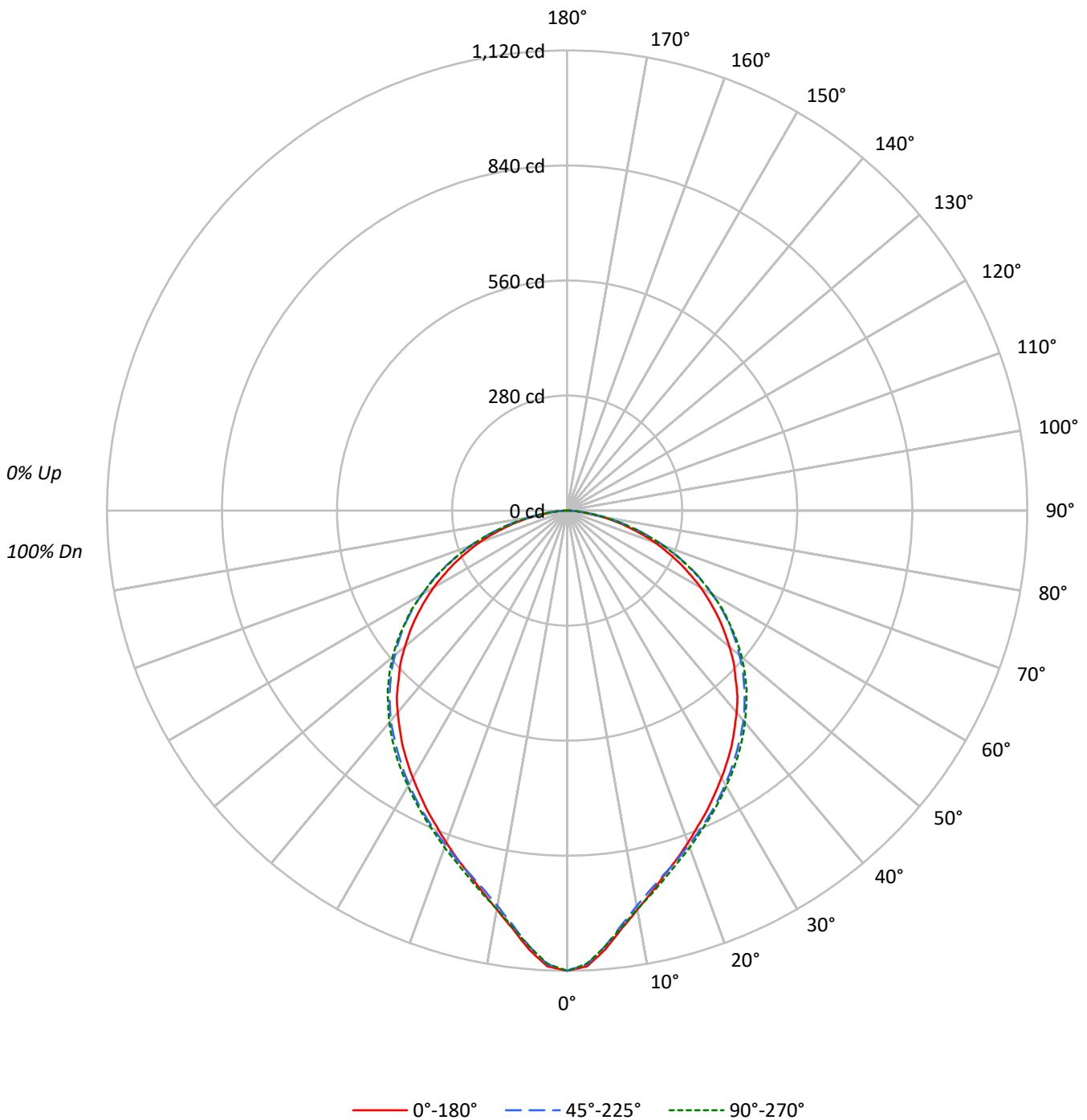
Lumens per Lamp: N/A
Luminaire Lumens: 2601.6 lumens
Efficiency: N/A
Efficacy: 60.2 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	3014	3014	3014
5°	2894	2874	2874
10°	2693	2669	2690
15°	2556	2551	2576
20°	2462	2480	2499
25°	2392	2431	2445
30°	2334	2391	2406
35°	2294	2361	2385
40°	2253	2345	2364
45°	2207	2322	2350
50°	2158	2293	2323
55°	2098	2259	2269
60°	2023	2197	2193
65°	1917	2113	2099
70°	1790	1971	1947
75°	1580	1746	1728
80°	1283	1423	1353
85°	889	908	874



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.0	3.8
10°-20°	259.2	10.0
20°-30°	377.0	14.5
30°-40°	448.6	17.2
40°-50°	465.8	17.9
50°-60°	422.0	16.2
60°-70°	318.4	12.2
70°-80°	173.5	6.7
80°-90°	38.1	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°	735.2	28.3
0°-40°	1183.8	45.5
0°-60°	2071.5	79.6
0°-90°	2601.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2601.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1120	1120	1120	1120	1120	
5°	1071	1069	1064	1063	1064	99
15°	917	915	916	922	925	259
25°	806	812	819	825	823	371
35°	698	707	719	730	726	437
45°	580	590	610	617	617	448
55°	447	458	482	485	484	399
65°	301	310	332	331	330	298
75°	152	158	168	169	166	162
85°	29	29	29	29	28	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1120.0	1120.0	1120.0	1120.0	1120.0
2.5°	1110.2	1109.1	1105.5	1104.1	1103.8
5°	1071.3	1068.8	1063.8	1063.2	1063.8
7.5°	1024.9	1022.1	1017.0	1019.0	1021.5
10°	985.7	978.7	976.7	979.5	984.3
12.5°	950.7	945.1	943.4	950.7	954.1
15°	917.4	915.2	915.7	921.9	924.7
17.5°	888.6	887.2	890.8	895.6	897.0
20°	859.8	862.6	865.9	871.0	872.6
22.5°	831.5	836.8	842.4	849.1	846.9
25°	805.5	812.2	818.6	825.3	823.4
27.5°	777.7	785.6	794.5	801.8	799.0
30°	751.2	761.0	769.6	778.6	774.4
32.5°	724.9	734.1	744.4	755.4	750.6
35°	698.3	706.7	718.7	729.6	726.0
37.5°	668.9	679.2	692.9	702.5	700.0
40°	641.5	651.0	667.5	673.6	673.1
42.5°	613.7	621.6	638.9	645.9	644.8
45°	579.9	590.2	610.1	616.8	617.4
47.5°	549.9	558.6	579.9	585.2	586.3
50°	515.5	526.4	547.7	554.1	555.0
52.5°	481.6	493.4	515.2	519.7	520.6
55°	447.2	457.9	481.6	485.0	483.6
57.5°	411.1	424.0	445.8	447.5	448.9
60°	375.8	387.1	408.3	410.6	407.5
62.5°	337.5	349.0	370.8	371.4	368.9
65°	301.1	309.8	331.9	331.4	329.7
67.5°	263.1	273.7	289.9	290.5	289.1
70°	227.5	234.8	250.5	250.8	247.4
72.5°	189.2	197.0	209.6	207.9	207.1
75°	152.0	158.1	167.9	169.0	166.2
77.5°	117.8	122.3	129.6	128.7	125.7
80°	82.8	86.5	91.8	90.7	87.3
82.5°	52.9	55.1	58.5	57.1	55.7
85°	28.8	29.1	29.4	29.1	28.3
87.5°	10.6	10.9	10.9	10.6	9.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)