

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: P489271

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-2LO-40-120-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: P489271
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-LD4-2LO-40-120-EDD
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

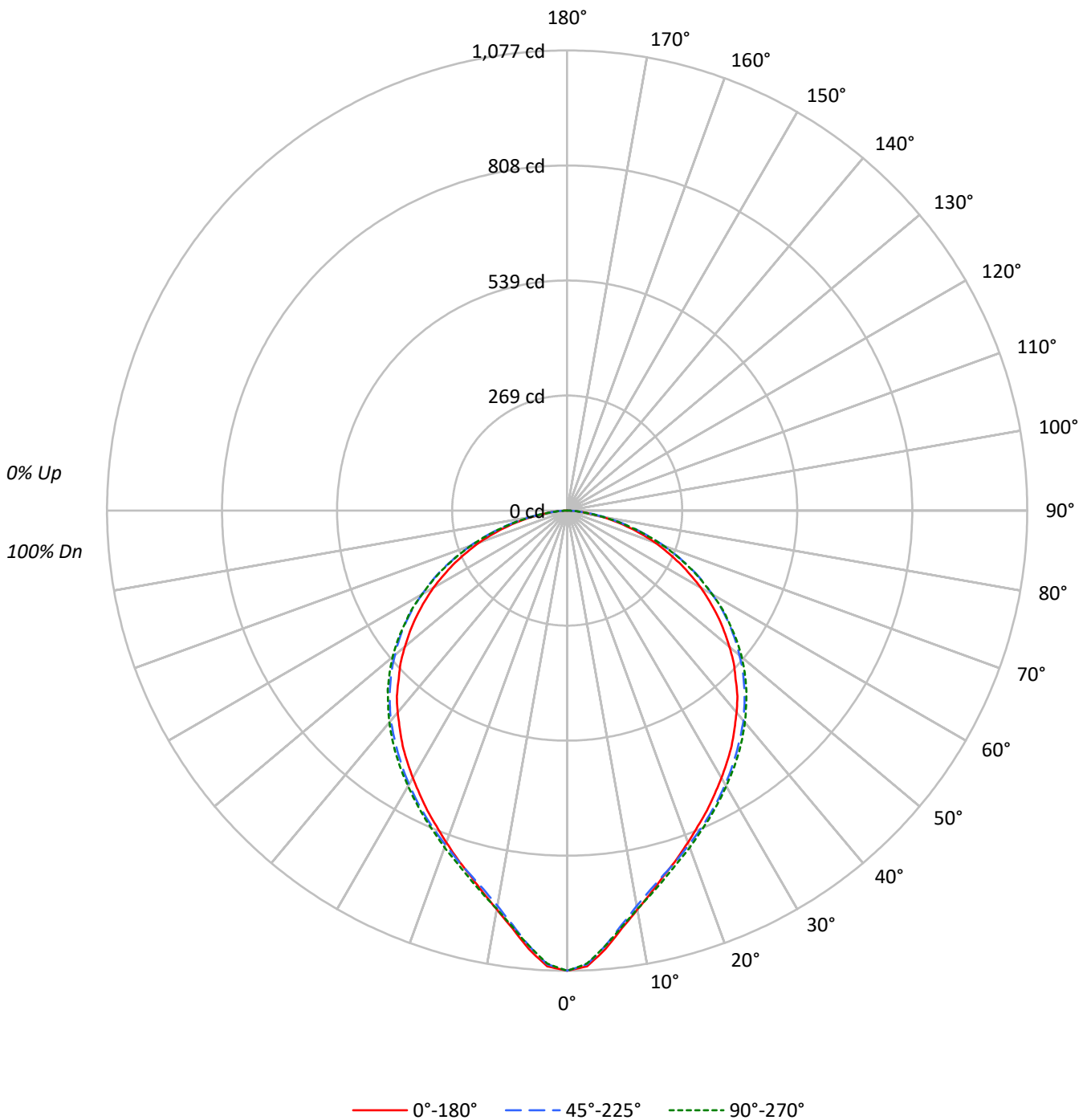
Lumens per Lamp: N/A
Luminaire Lumens: 2501.4 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
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°	2898	2898	2898
5°	2783	2763	2763
10°	2590	2566	2586
15°	2457	2453	2477
20°	2367	2384	2403
25°	2299	2337	2351
30°	2244	2299	2314
35°	2206	2270	2293
40°	2167	2255	2273
45°	2122	2232	2259
50°	2075	2205	2234
55°	2017	2173	2182
60°	1945	2113	2109
65°	1843	2032	2018
70°	1721	1895	1872
75°	1519	1679	1661
80°	1234	1368	1300
85°	855	871	840



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.2	3.8
10°-20°	249.3	10.0
20°-30°	362.5	14.5
30°-40°	431.3	17.2
40°-50°	447.9	17.9
50°-60°	405.7	16.2
60°-70°	306.2	12.2
70°-80°	166.8	6.7
80°-90°	36.6	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°	706.9	28.3
0°-40°	1138.2	45.5
0°-60°	1991.8	79.6
0°-90°	2501.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2501.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1077	1077	1077	1077	1077	
5°	1030	1028	1023	1022	1023	96
15°	882	880	880	886	889	249
25°	774	781	787	794	792	357
35°	671	679	691	702	698	420
45°	558	568	587	593	594	431
55°	430	440	463	466	465	384
65°	290	298	319	319	317	286
75°	146	152	162	162	160	156
85°	28	28	28	28	27	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1076.9	1076.9	1076.9	1076.9	1076.9
2.5°	1067.5	1066.4	1062.9	1061.5	1061.3
5°	1030.1	1027.6	1022.8	1022.3	1022.8
7.5°	985.4	982.7	977.9	979.8	982.2
10°	947.7	941.0	939.1	941.8	946.4
12.5°	914.1	908.7	907.1	914.1	917.3
15°	882.1	879.9	880.5	886.4	889.1
17.5°	854.4	853.0	856.5	861.1	862.4
20°	826.6	829.3	832.6	837.4	839.0
22.5°	799.5	804.6	810.0	816.4	814.3
25°	774.4	780.9	787.1	793.5	791.7
27.5°	747.8	755.3	763.9	770.9	768.2
30°	722.2	731.6	740.0	748.6	744.6
32.5°	696.9	705.8	715.8	726.3	721.7
35°	671.4	679.4	691.0	701.5	698.0
37.5°	643.1	653.1	666.3	675.4	673.0
40°	616.8	625.9	641.8	647.7	647.2
42.5°	590.1	597.7	614.3	621.1	620.0
45°	557.6	567.5	586.6	593.1	593.6
47.5°	528.8	537.1	557.6	562.7	563.7
50°	495.7	506.2	526.6	532.8	533.6
52.5°	463.1	474.4	495.4	499.7	500.5
55°	430.0	440.2	463.1	466.3	465.0
57.5°	395.3	407.7	428.7	430.3	431.6
60°	361.4	372.1	392.6	394.7	391.8
62.5°	324.5	335.5	356.5	357.1	354.6
65°	289.5	297.9	319.1	318.6	317.0
67.5°	252.9	263.2	278.8	279.3	278.0
70°	218.8	225.8	240.8	241.1	237.9
72.5°	181.9	189.4	201.5	199.9	199.1
75°	146.1	152.0	161.5	162.5	159.8
77.5°	113.3	117.6	124.6	123.8	120.8
80°	79.6	83.1	88.3	87.2	83.9
82.5°	50.8	53.0	56.2	54.9	53.5
85°	27.7	28.0	28.2	28.0	27.2
87.5°	10.2	10.5	10.5	10.2	9.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)