

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: P489267

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-2LO-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: P489267
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-30-120-EDD
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

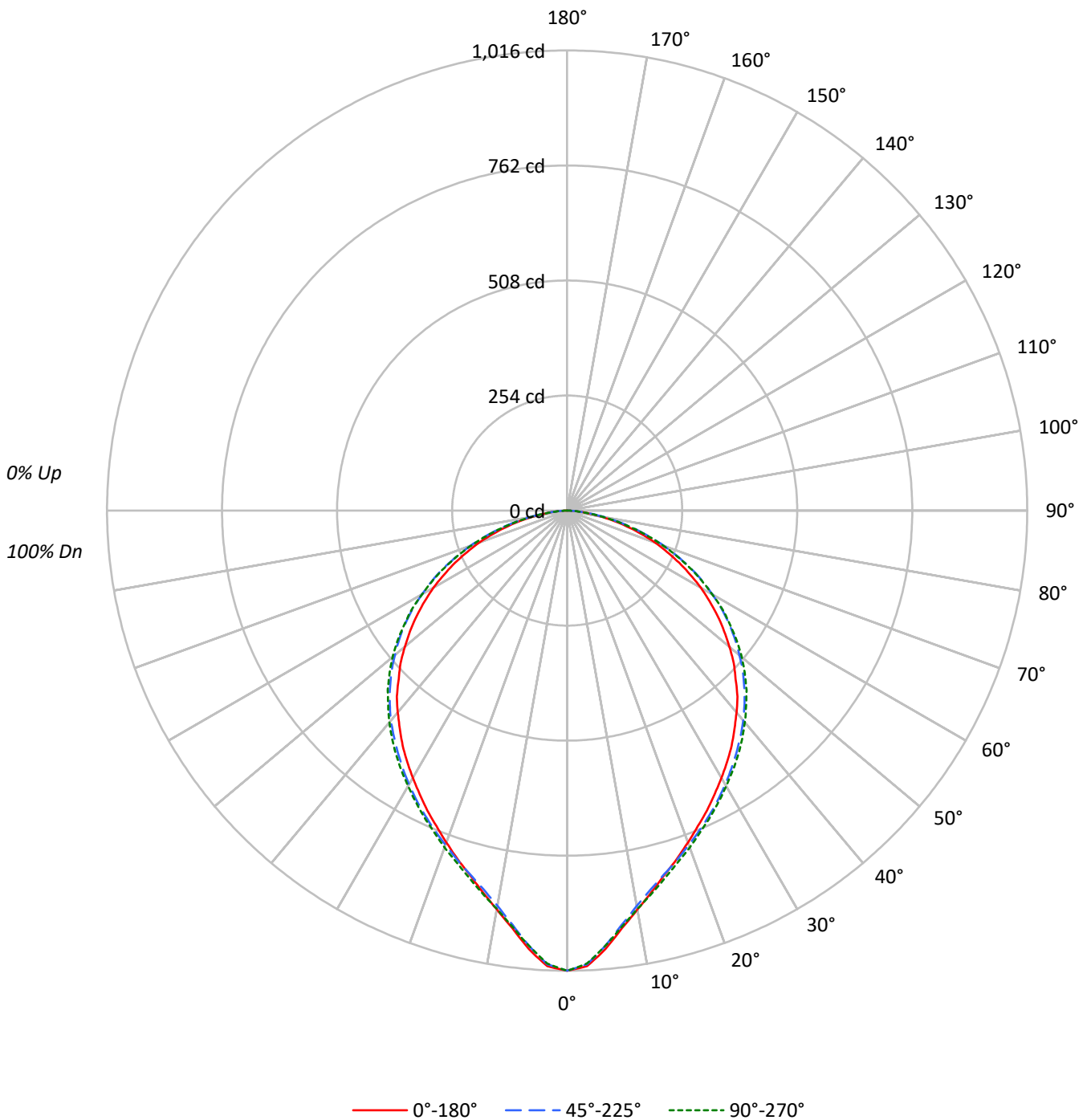
Lumens per Lamp: N/A
Luminaire Lumens: 2359.7 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P489267

CATALOG NUMBER: CLM-24-2-INS-P12125-LD4-2LO-30-120-EDD

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°	2734	2734	2734
5°	2625	2606	2606
10°	2443	2421	2440
15°	2318	2314	2337
20°	2233	2249	2267
25°	2169	2205	2217
30°	2117	2169	2183
35°	2080	2142	2163
40°	2044	2127	2145
45°	2002	2106	2131
50°	1958	2080	2107
55°	1903	2050	2058
60°	1835	1993	1989
65°	1739	1917	1904
70°	1624	1788	1766
75°	1433	1583	1568
80°	1164	1291	1227
85°	809	821	790



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.8	3.8
10°-20°	235.1	10.0
20°-30°	341.9	14.5
30°-40°	406.9	17.2
40°-50°	422.5	17.9
50°-60°	382.8	16.2
60°-70°	288.8	12.2
70°-80°	157.4	6.7
80°-90°	34.6	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°	666.8	28.3
0°-40°	1073.7	45.5
0°-60°	1879.0	79.6
0°-90°	2359.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2359.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1016	1016	1016	1016	1016	
5°	972	969	965	964	965	90
15°	832	830	831	836	839	235
25°	731	737	742	749	747	337
35°	633	641	652	662	658	396
45°	526	535	553	560	560	407
55°	406	415	437	440	439	362
65°	273	281	301	301	299	270
75°	138	143	152	153	151	147
85°	26	26	27	26	26	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1015.9	1015.9	1015.9	1015.9	1015.9
2.5°	1007.0	1006.0	1002.7	1001.4	1001.2
5°	971.7	969.4	964.9	964.4	964.9
7.5°	929.6	927.0	922.5	924.2	926.5
10°	894.0	887.7	885.9	888.5	892.8
12.5°	862.3	857.2	855.7	862.3	865.4
15°	832.1	830.1	830.6	836.2	838.7
17.5°	806.0	804.7	808.0	812.3	813.6
20°	779.8	782.4	785.4	790.0	791.5
22.5°	754.2	759.0	764.1	770.2	768.1
25°	730.6	736.7	742.5	748.6	746.8
27.5°	705.4	712.5	720.7	727.3	724.7
30°	681.3	690.2	698.1	706.2	702.4
32.5°	657.5	665.8	675.2	685.1	680.8
35°	633.3	641.0	651.9	661.8	658.5
37.5°	606.7	616.1	628.5	637.1	634.9
40°	581.8	590.4	605.4	611.0	610.5
42.5°	556.7	563.8	579.5	585.9	584.9
45°	526.0	535.4	553.4	559.5	560.0
47.5°	498.8	506.7	526.0	530.8	531.8
50°	467.6	477.5	496.8	502.6	503.4
52.5°	436.9	447.5	467.3	471.4	472.2
55°	405.6	415.3	436.9	439.9	438.6
57.5°	372.9	384.6	404.4	405.9	407.2
60°	340.9	351.1	370.4	372.4	369.6
62.5°	306.1	316.5	336.3	336.8	334.6
65°	273.1	281.0	301.0	300.6	299.0
67.5°	238.6	248.2	263.0	263.5	262.2
70°	206.4	213.0	227.2	227.4	224.4
72.5°	171.6	178.7	190.1	188.6	187.9
75°	137.8	143.4	152.3	153.3	150.8
77.5°	106.9	110.9	117.5	116.8	114.0
80°	75.1	78.4	83.3	82.3	79.2
82.5°	48.0	50.0	53.1	51.8	50.5
85°	26.2	26.4	26.6	26.4	25.6
87.5°	9.6	9.9	9.9	9.6	8.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)