

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: P489219

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-1HI-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: P489219
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-LD4-1HI-30-120-EDD
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

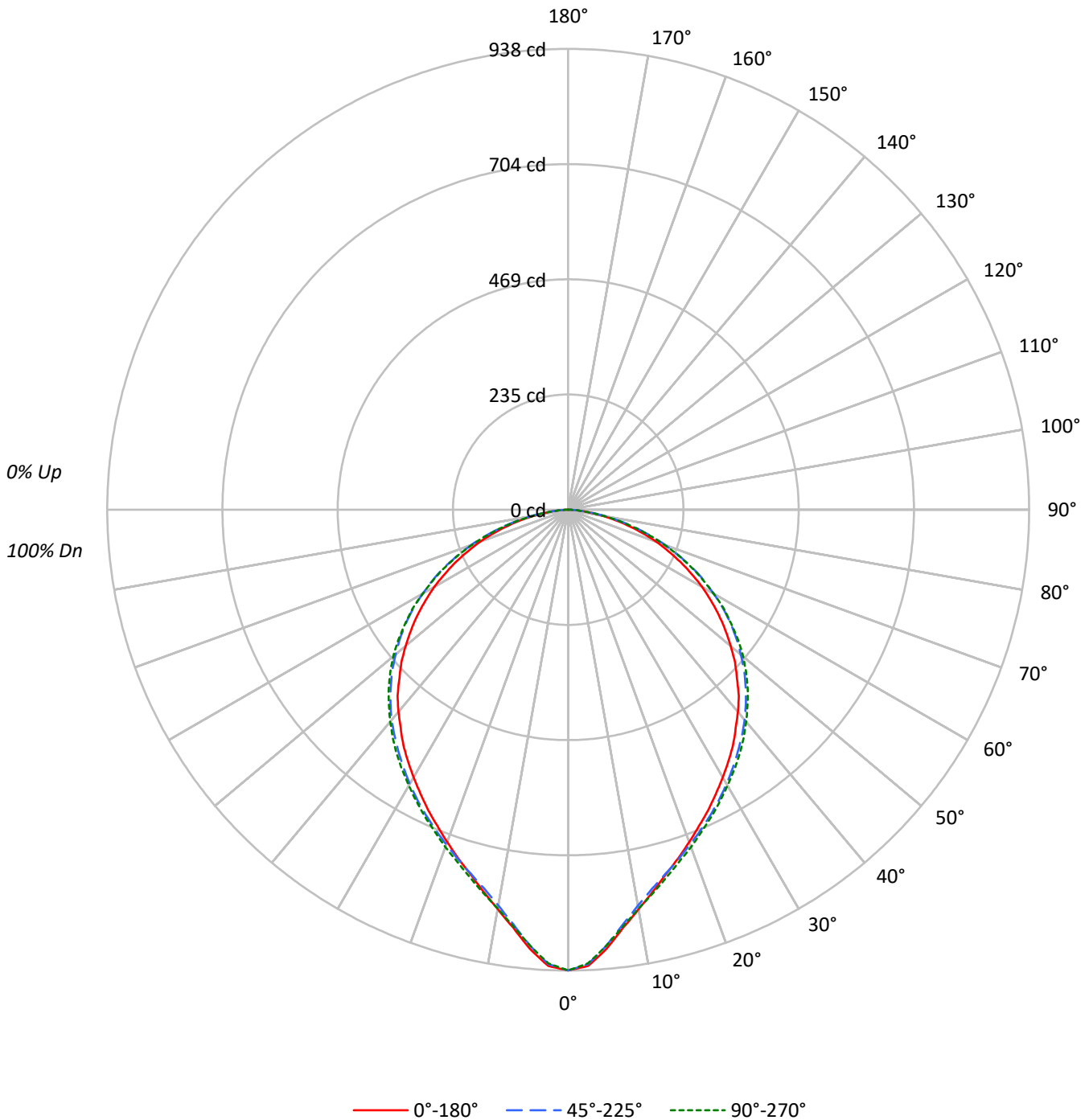
Lumens per Lamp: N/A
Luminaire Lumens: 2178.2 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 21.6
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°	2523	2523	2523
5°	2423	2406	2406
10°	2255	2235	2252
15°	2140	2136	2157
20°	2061	2076	2092
25°	2002	2035	2047
30°	1954	2002	2015
35°	1920	1977	1997
40°	1887	1963	1979
45°	1848	1944	1967
50°	1807	1920	1945
55°	1757	1892	1900
60°	1694	1840	1836
65°	1605	1769	1757
70°	1499	1650	1629
75°	1323	1462	1447
80°	1075	1192	1133
85°	744	760	732



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.9	3.8
10°-20°	217.0	10.0
20°-30°	315.6	14.5
30°-40°	375.6	17.2
40°-50°	390.0	17.9
50°-60°	353.3	16.2
60°-70°	266.6	12.2
70°-80°	145.3	6.7
80°-90°	31.9	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°	615.5	28.3
0°-40°	991.1	45.5
0°-60°	1734.4	79.6
0°-90°	2178.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2178.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	938	938	938	938	938	
5°	897	895	891	890	891	83
15°	768	766	767	772	774	217
25°	674	680	685	691	689	311
35°	585	592	602	611	608	365
45°	486	494	511	516	517	375
55°	374	383	403	406	405	334
65°	252	259	278	277	276	249
75°	127	132	141	142	139	136
85°	24	24	25	24	24	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	937.7	937.7	937.7	937.7	937.7
2.5°	929.5	928.6	925.6	924.4	924.1
5°	897.0	894.9	890.6	890.2	890.6
7.5°	858.1	855.7	851.5	853.2	855.3
10°	825.3	819.4	817.8	820.1	824.1
12.5°	796.0	791.3	789.9	796.0	798.8
15°	768.1	766.2	766.7	771.9	774.2
17.5°	744.0	742.8	745.8	749.8	751.0
20°	719.8	722.2	725.0	729.2	730.6
22.5°	696.2	700.6	705.3	710.9	709.1
25°	674.4	680.0	685.4	691.0	689.4
27.5°	651.2	657.7	665.2	671.3	669.0
30°	628.9	637.1	644.4	651.9	648.4
32.5°	606.9	614.6	623.3	632.4	628.4
35°	584.6	591.7	601.7	610.9	607.8
37.5°	560.0	568.7	580.2	588.1	586.0
40°	537.1	545.0	558.9	564.0	563.5
42.5°	513.9	520.4	535.0	540.8	539.9
45°	485.5	494.2	510.8	516.4	516.9
47.5°	460.4	467.7	485.5	490.0	490.9
50°	431.6	440.8	458.6	463.9	464.7
52.5°	403.3	413.1	431.4	435.1	435.8
55°	374.4	383.3	403.3	406.1	404.9
57.5°	344.2	355.0	373.3	374.7	375.8
60°	314.7	324.1	341.9	343.7	341.2
62.5°	282.6	292.2	310.5	310.9	308.8
65°	252.1	259.4	277.9	277.4	276.0
67.5°	220.3	229.2	242.8	243.2	242.1
70°	190.5	196.6	209.7	210.0	207.1
72.5°	158.4	165.0	175.5	174.1	173.4
75°	127.2	132.4	140.6	141.5	139.2
77.5°	98.7	102.4	108.5	107.8	105.2
80°	69.4	72.4	76.9	75.9	73.1
82.5°	44.3	46.2	49.0	47.8	46.6
85°	24.1	24.4	24.6	24.4	23.7
87.5°	8.9	9.1	9.1	8.9	8.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)