

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: P489223

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-1HI-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: P489223
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-40-120-EDD
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

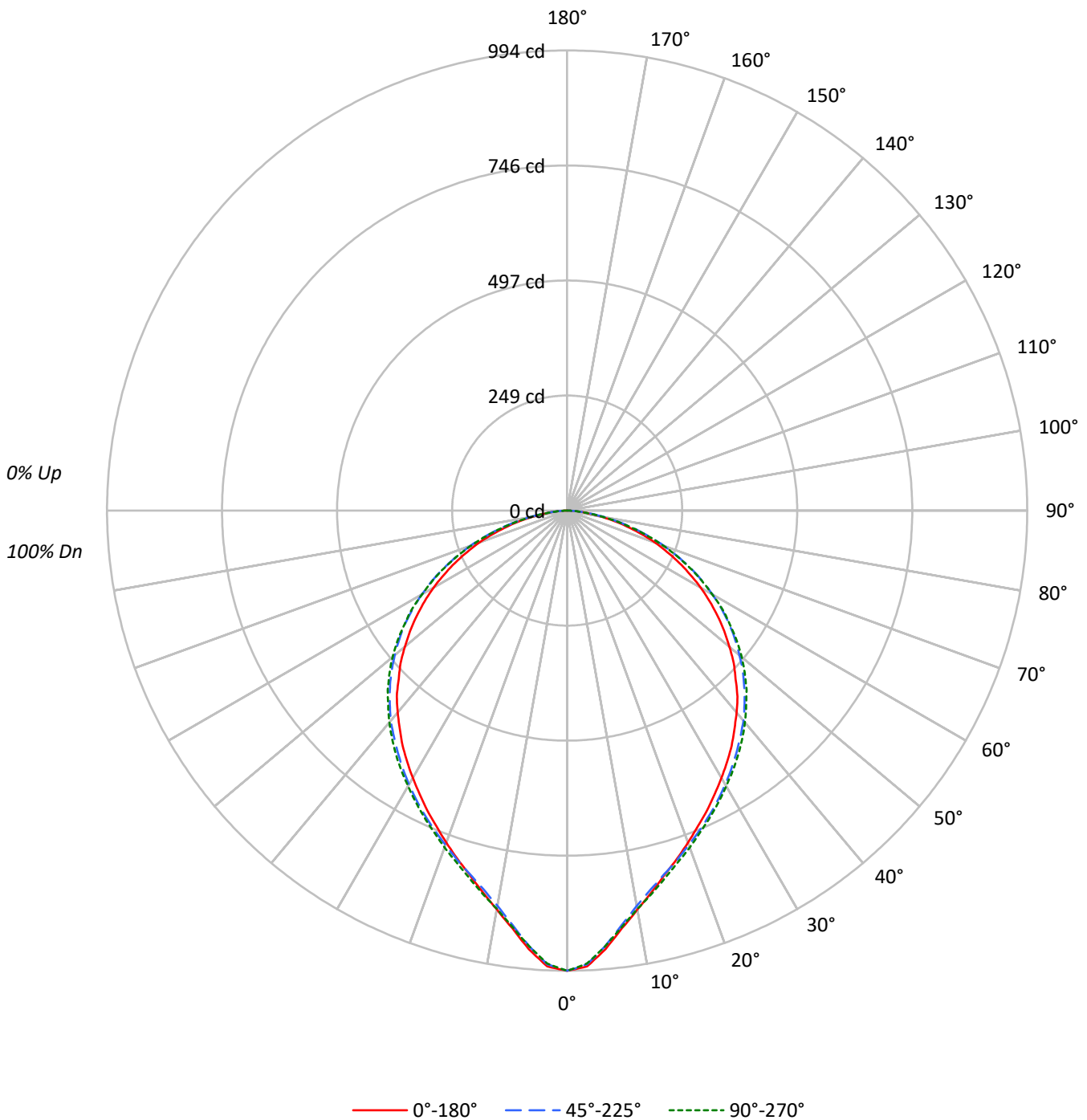
Lumens per Lamp: N/A
Luminaire Lumens: 2309.0 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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

TEST NUMBER: P489223

CATALOG NUMBER: CLM-24-2-INS-P12125-LD4-1HI-40-120-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°	2675	2675	2675
5°	2568	2550	2550
10°	2390	2369	2387
15°	2268	2264	2286
20°	2185	2201	2218
25°	2123	2157	2170
30°	2072	2123	2136
35°	2036	2096	2117
40°	2000	2081	2099
45°	1959	2061	2085
50°	1915	2035	2062
55°	1862	2006	2014
60°	1795	1950	1947
65°	1702	1876	1863
70°	1589	1749	1728
75°	1403	1549	1534
80°	1139	1263	1201
85°	790	806	775



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.8	3.8
10°-20°	230.1	10.0
20°-30°	334.6	14.5
30°-40°	398.1	17.2
40°-50°	413.4	17.9
50°-60°	374.5	16.2
60°-70°	282.6	12.2
70°-80°	154.0	6.7
80°-90°	33.8	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°	652.5	28.3
0°-40°	1050.6	45.5
0°-60°	1838.6	79.6
0°-90°	2309.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2309.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	994	994	994	994	994	
5°	951	949	944	944	944	88
15°	814	812	813	818	821	230
25°	715	721	726	732	731	329
35°	620	627	638	648	644	387
45°	515	524	542	548	548	398
55°	397	406	428	430	429	354
65°	267	275	295	294	293	264
75°	135	140	149	150	148	144
85°	26	26	26	26	25	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	994.1	994.1	994.1	994.1	994.1
2.5°	985.4	984.4	981.1	979.9	979.6
5°	950.8	948.6	944.1	943.6	944.1
7.5°	909.6	907.1	902.7	904.4	906.6
10°	874.8	868.6	866.9	869.4	873.6
12.5°	843.8	838.8	837.3	843.8	846.8
15°	814.2	812.2	812.7	818.2	820.7
17.5°	788.6	787.4	790.6	794.9	796.1
20°	763.1	765.5	768.5	773.0	774.5
22.5°	738.0	742.7	747.7	753.6	751.6
25°	714.9	720.8	726.5	732.5	730.8
27.5°	690.3	697.2	705.2	711.6	709.2
30°	666.7	675.4	683.1	691.0	687.3
32.5°	643.3	651.5	660.7	670.4	666.2
35°	619.7	627.2	637.9	647.6	644.3
37.5°	593.7	602.8	615.0	623.4	621.2
40°	569.3	577.8	592.4	597.9	597.4
42.5°	544.7	551.7	567.1	573.3	572.3
45°	514.7	523.9	541.5	547.5	547.9
47.5°	488.1	495.8	514.7	519.4	520.4
50°	457.5	467.2	486.1	491.8	492.6
52.5°	427.5	437.9	457.3	461.3	462.0
55°	396.9	406.4	427.5	430.5	429.2
57.5°	364.9	376.3	395.7	397.2	398.4
60°	333.6	343.5	362.4	364.4	361.7
62.5°	299.6	309.7	329.1	329.6	327.4
65°	267.3	275.0	294.6	294.1	292.6
67.5°	233.5	242.9	257.3	257.8	256.6
70°	201.9	208.4	222.3	222.6	219.6
72.5°	167.9	174.9	186.0	184.6	183.8
75°	134.9	140.3	149.0	150.0	147.5
77.5°	104.6	108.5	115.0	114.3	111.5
80°	73.5	76.7	81.5	80.5	77.5
82.5°	46.9	48.9	51.9	50.7	49.4
85°	25.6	25.8	26.1	25.8	25.1
87.5°	9.4	9.7	9.7	9.4	8.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)