

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: P489269

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-2LO-35-120-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: P489269
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-35-120-EDD
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

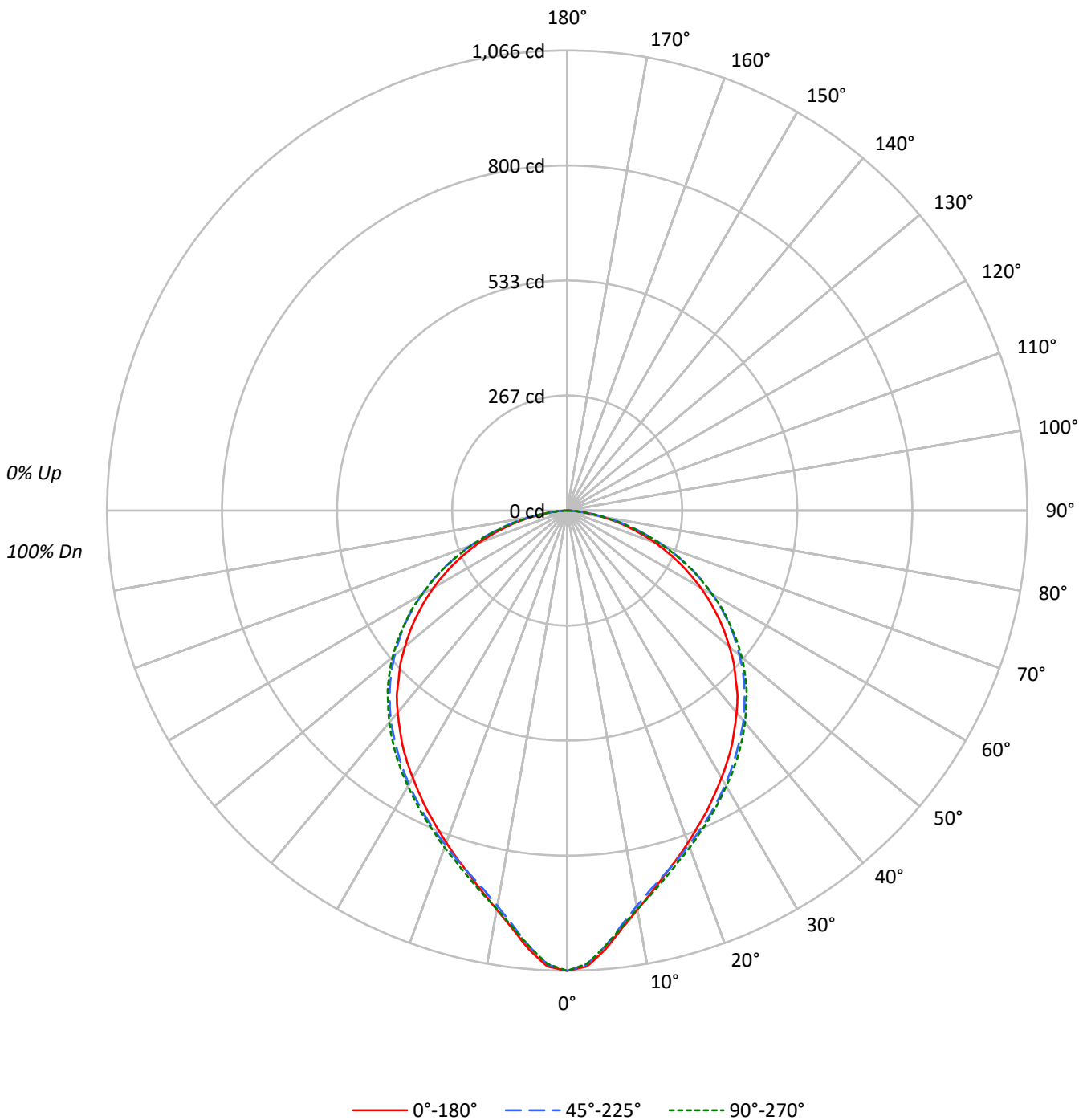
Lumens per Lamp: N/A
Luminaire Lumens: 2476.7 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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

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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	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					100			
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84					84			
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70					70			
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59					59			
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51					51			
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44					44			
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38					38			
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34					34			
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30					30			
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27					27			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2869	2869	2869
5°	2755	2736	2736
10°	2564	2541	2560
15°	2433	2429	2452
20°	2344	2361	2379
25°	2277	2314	2327
30°	2222	2277	2291
35°	2184	2248	2270
40°	2145	2232	2251
45°	2101	2210	2237
50°	2055	2183	2212
55°	1997	2151	2160
60°	1926	2092	2088
65°	1826	2012	1998
70°	1704	1876	1853
75°	1504	1663	1646
80°	1223	1354	1288
85°	846	865	831



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.2	3.8
10°-20°	246.8	10.0
20°-30°	358.9	14.5
30°-40°	427.1	17.2
40°-50°	443.4	17.9
50°-60°	401.7	16.2
60°-70°	303.1	12.2
70°-80°	165.2	6.7
80°-90°	36.3	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°	699.9	28.3
0°-40°	1126.9	45.5
0°-60°	1972.1	79.6
0°-90°	2476.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2476.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1066	1066	1066	1066	1066	
5°	1020	1018	1013	1012	1013	95
15°	873	871	872	878	880	247
25°	767	773	779	786	784	353
35°	665	673	684	695	691	416
45°	552	562	581	587	588	427
55°	426	436	458	462	460	380
65°	287	295	316	316	314	283
75°	145	150	160	161	158	154
85°	27	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°	1066.3	1066.3	1066.3	1066.3	1066.3
2.5°	1056.9	1055.9	1052.4	1051.1	1050.8
5°	1019.9	1017.5	1012.7	1012.2	1012.7
7.5°	975.7	973.0	968.2	970.1	972.5
10°	938.4	931.7	929.8	932.5	937.0
12.5°	905.1	899.7	898.1	905.1	908.3
15°	873.3	871.2	871.8	877.6	880.3
17.5°	845.9	844.6	848.1	852.6	853.9
20°	818.5	821.1	824.3	829.1	830.7
22.5°	791.6	796.6	802.0	808.4	806.2
25°	766.8	773.2	779.3	785.7	783.8
27.5°	740.4	747.9	756.4	763.3	760.7
30°	715.1	724.4	732.7	741.2	737.2
32.5°	690.1	698.9	708.7	719.1	714.6
35°	664.7	672.7	684.2	694.6	691.1
37.5°	636.8	646.6	659.7	668.7	666.4
40°	610.7	619.7	635.4	641.3	640.8
42.5°	584.3	591.8	608.3	614.9	613.9
45°	552.1	561.9	580.8	587.2	587.7
47.5°	523.5	531.8	552.1	557.1	558.2
50°	490.8	501.2	521.4	527.5	528.3
52.5°	458.5	469.7	490.5	494.8	495.6
55°	425.7	435.9	458.5	461.7	460.4
57.5°	391.4	403.6	424.4	426.0	427.4
60°	357.8	368.5	388.7	390.8	387.9
62.5°	321.3	332.2	353.0	353.5	351.1
65°	286.7	294.9	316.0	315.5	313.8
67.5°	250.4	260.6	276.0	276.5	275.2
70°	216.6	223.5	238.5	238.7	235.5
72.5°	180.1	187.6	199.5	198.0	197.2
75°	144.7	150.5	159.9	160.9	158.3
77.5°	112.2	116.4	123.4	122.6	119.6
80°	78.9	82.3	87.4	86.3	83.1
82.5°	50.3	52.5	55.7	54.4	53.0
85°	27.4	27.7	28.0	27.7	26.9
87.5°	10.1	10.4	10.4	10.1	9.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)