

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: P489244

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-1STD-35-120-EDD-90**

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: P489244
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-LD4-1STD-35-120-EDD-90
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

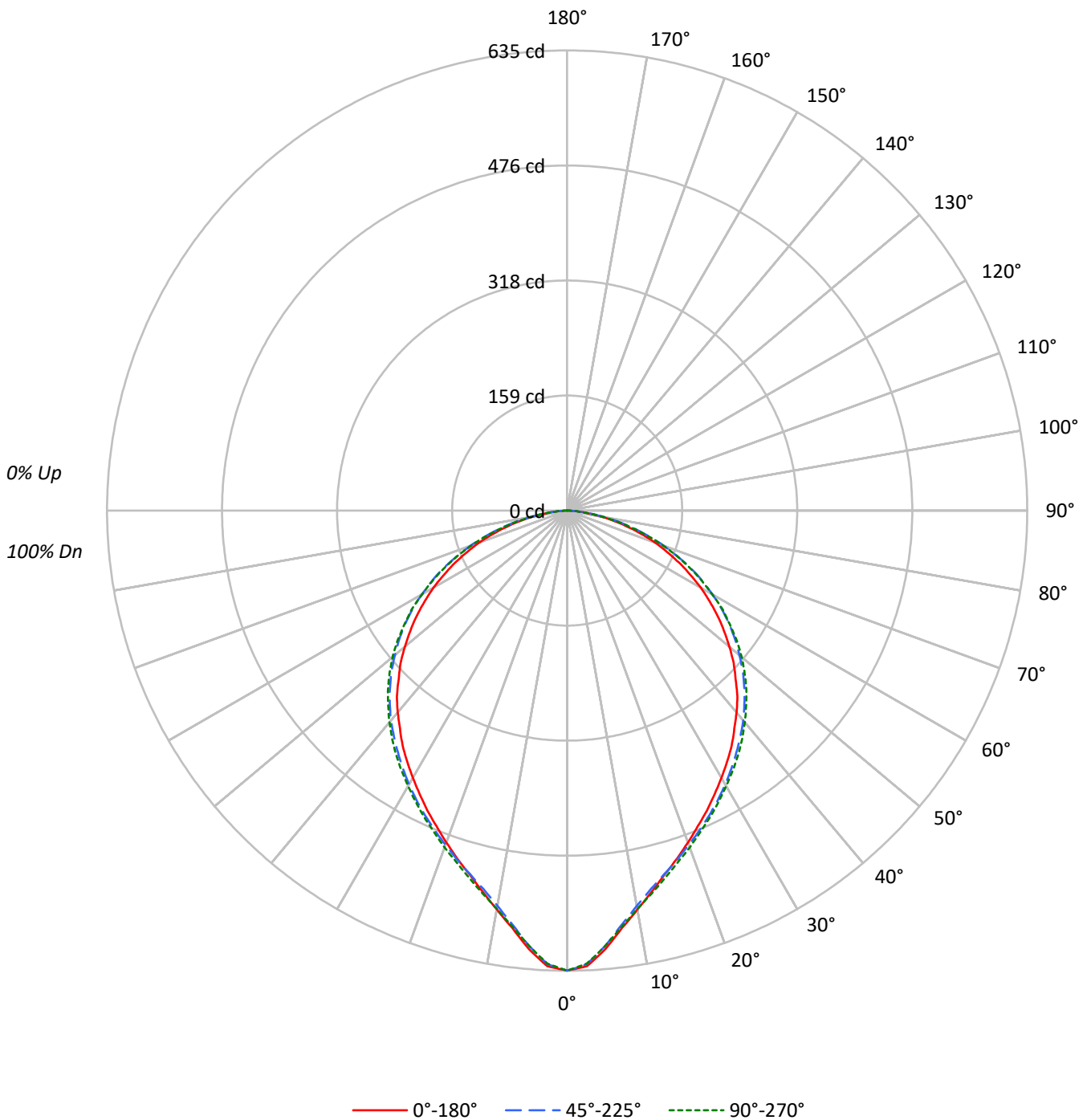
Lumens per Lamp: N/A
Luminaire Lumens: 1474.5 lumens
Efficiency: N/A
Efficacy: 88.8 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 16.6
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°	1708	1708	1708
5°	1640	1629	1629
10°	1527	1513	1524
15°	1448	1446	1460
20°	1395	1405	1416
25°	1355	1378	1386
30°	1323	1355	1364
35°	1300	1338	1352
40°	1277	1329	1340
45°	1251	1316	1332
50°	1223	1299	1317
55°	1189	1281	1286
60°	1146	1245	1243
65°	1087	1198	1189
70°	1015	1117	1103
75°	895	990	979
80°	727	806	767
85°	503	516	494



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.1	3.8
10°-20°	146.9	10.0
20°-30°	213.7	14.5
30°-40°	254.2	17.2
40°-50°	264.0	17.9
50°-60°	239.2	16.2
60°-70°	180.5	12.2
70°-80°	98.3	6.7
80°-90°	21.6	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°	416.7	28.3
0°-40°	670.9	45.5
0°-60°	1174.1	79.6
0°-90°	1474.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1474.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	635	635	635	635	635	
5°	607	606	603	603	603	56
15°	520	519	519	522	524	147
25°	456	460	464	468	467	210
35°	396	400	407	414	412	247
45°	329	334	346	350	350	254
55°	254	260	273	275	274	226
65°	171	176	188	188	187	169
75°	86	90	95	96	94	92
85°	16	16	17	16	16	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	634.8	634.8	634.8	634.8	634.8
2.5°	629.2	628.6	626.5	625.7	625.6
5°	607.2	605.8	602.9	602.6	602.9
7.5°	580.9	579.3	576.4	577.5	579.0
10°	558.7	554.7	553.6	555.2	557.9
12.5°	538.8	535.7	534.7	538.8	540.7
15°	519.9	518.7	519.0	522.5	524.1
17.5°	503.6	502.8	504.9	507.6	508.4
20°	487.3	488.9	490.8	493.6	494.6
22.5°	471.3	474.3	477.4	481.3	480.0
25°	456.5	460.3	464.0	467.8	466.7
27.5°	440.8	445.2	450.3	454.4	452.9
30°	425.7	431.3	436.2	441.3	438.9
32.5°	410.8	416.1	421.9	428.1	425.4
35°	395.8	400.5	407.3	413.5	411.5
37.5°	379.1	385.0	392.7	398.1	396.7
40°	363.6	369.0	378.3	381.8	381.5
42.5°	347.8	352.3	362.1	366.1	365.5
45°	328.7	334.5	345.8	349.6	349.9
47.5°	311.7	316.6	328.7	331.7	332.3
50°	292.2	298.4	310.4	314.1	314.5
52.5°	273.0	279.6	292.0	294.6	295.0
55°	253.5	259.5	273.0	274.9	274.1
57.5°	233.0	240.3	252.7	253.6	254.4
60°	213.0	219.4	231.4	232.7	231.0
62.5°	191.3	197.8	210.2	210.5	209.1
65°	170.7	175.6	188.1	187.8	186.8
67.5°	149.1	155.1	164.3	164.6	163.9
70°	129.0	133.1	142.0	142.1	140.2
72.5°	107.2	111.7	118.8	117.9	117.4
75°	86.1	89.6	95.2	95.8	94.2
77.5°	66.8	69.3	73.4	73.0	71.2
80°	46.9	49.0	52.0	51.4	49.5
82.5°	30.0	31.3	33.2	32.4	31.6
85°	16.3	16.5	16.7	16.5	16.0
87.5°	6.0	6.2	6.2	6.0	5.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)