

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: P489249

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-1STD-50-120-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: P489249
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-50-120-EDD
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

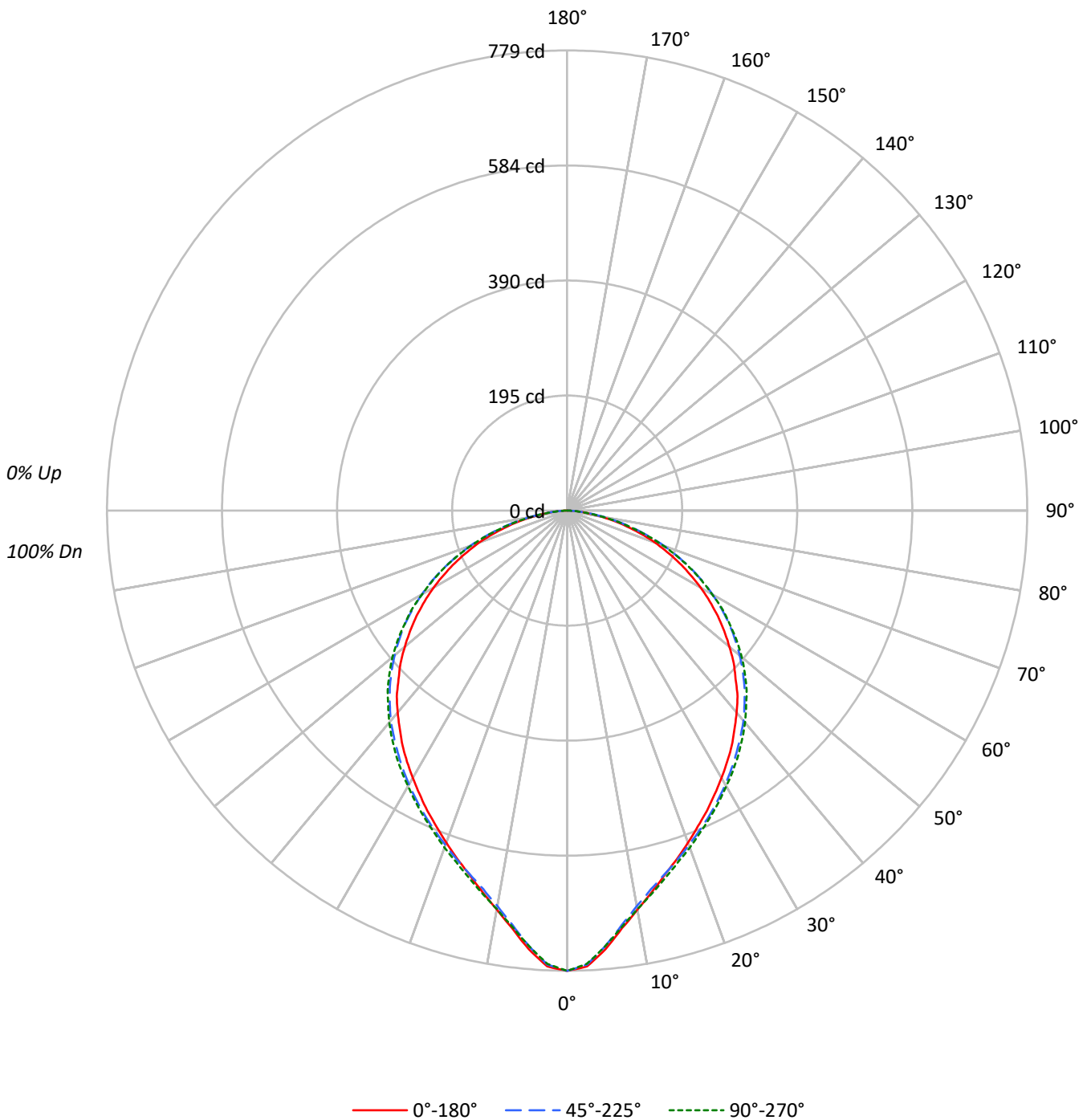
Lumens per Lamp: N/A
Luminaire Lumens: 1810.1 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.23
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	2097	2097	2097
5°	2014	1999	1999
10°	1874	1857	1871
15°	1778	1775	1792
20°	1713	1725	1739
25°	1664	1691	1701
30°	1624	1664	1674
35°	1596	1643	1659
40°	1568	1631	1645
45°	1536	1615	1635
50°	1502	1595	1616
55°	1460	1572	1579
60°	1407	1529	1526
65°	1334	1470	1461
70°	1245	1371	1354
75°	1099	1214	1203
80°	893	990	941
85°	621	630	608



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.9	3.8
10°-20°	180.4	10.0
20°-30°	262.3	14.5
30°-40°	312.1	17.2
40°-50°	324.1	17.9
50°-60°	293.6	16.2
60°-70°	221.6	12.2
70°-80°	120.7	6.7
80°-90°	26.5	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°	511.5	28.3
0°-40°	823.6	45.5
0°-60°	1441.3	79.6
0°-90°	1810.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1810.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	779	779	779	779	779	
5°	745	744	740	740	740	69
15°	638	637	637	641	643	180
25°	560	565	570	574	573	258
35°	486	492	500	508	505	304
45°	404	411	424	429	430	312
55°	311	319	335	338	336	278
65°	210	216	231	231	229	207
75°	106	110	117	118	116	113
85°	20	20	20	20	20	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	779.3	779.3	779.3	779.3	779.3
2.5°	772.5	771.7	769.1	768.2	768.0
5°	745.4	743.6	740.1	739.8	740.1
7.5°	713.1	711.1	707.6	709.0	710.7
10°	685.8	680.9	679.6	681.5	684.8
12.5°	661.5	657.6	656.4	661.5	663.8
15°	638.3	636.7	637.1	641.4	643.4
17.5°	618.2	617.3	619.8	623.1	624.1
20°	598.2	600.1	602.5	606.0	607.1
22.5°	578.5	582.2	586.1	590.8	589.2
25°	560.4	565.1	569.6	574.2	572.9
27.5°	541.1	546.6	552.8	557.9	555.9
30°	522.6	529.4	535.5	541.7	538.8
32.5°	504.3	510.8	518.0	525.6	522.2
35°	485.8	491.7	500.0	507.6	505.1
37.5°	465.4	472.6	482.1	488.7	487.0
40°	446.3	452.9	464.4	468.7	468.3
42.5°	427.0	432.5	444.5	449.4	448.6
45°	403.5	410.7	424.5	429.2	429.6
47.5°	382.6	388.7	403.5	407.2	407.9
50°	358.7	366.3	381.1	385.5	386.1
52.5°	335.1	343.3	358.5	361.6	362.2
55°	311.2	318.6	335.1	337.5	336.5
57.5°	286.0	295.0	310.2	311.4	312.3
60°	261.5	269.3	284.1	285.7	283.5
62.5°	234.8	242.8	258.0	258.4	256.6
65°	209.5	215.6	230.9	230.6	229.4
67.5°	183.0	190.4	201.7	202.1	201.2
70°	158.3	163.4	174.3	174.5	172.1
72.5°	131.6	137.1	145.8	144.7	144.1
75°	105.7	110.0	116.8	117.6	115.7
77.5°	82.0	85.1	90.2	89.6	87.4
80°	57.6	60.2	63.9	63.1	60.7
82.5°	36.8	38.4	40.7	39.7	38.7
85°	20.1	20.2	20.4	20.2	19.7
87.5°	7.4	7.6	7.6	7.4	6.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)