

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: P489897

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-4STD-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: P489897
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-24-4-INS-P12125-LD4-4STD-50-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

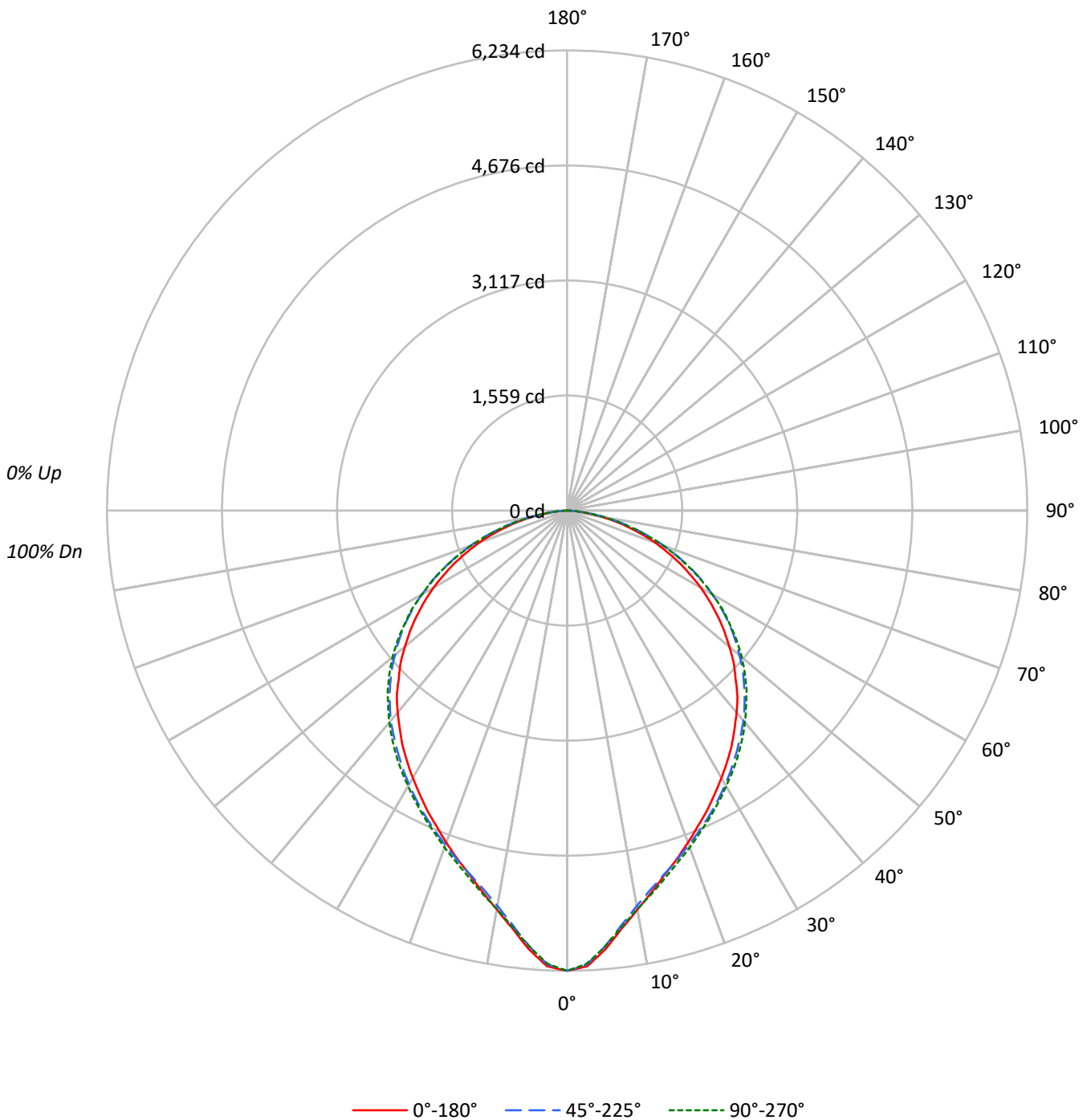
Lumens per Lamp: N/A
Luminaire Lumens: 14481.0 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 133.2
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°	8388	8388	8388
5°	8054	7997	7997
10°	7496	7428	7485
15°	7113	7100	7169
20°	6852	6901	6955
25°	6656	6765	6804
30°	6496	6656	6697
35°	6384	6571	6638
40°	6271	6526	6580
45°	6142	6462	6539
50°	6006	6381	6466
55°	5839	6289	6315
60°	5630	6116	6104
65°	5336	5882	5842
70°	4982	5485	5417
75°	4397	4859	4810
80°	3573	3959	3766
85°	2478	2524	2428



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	550.9	3.8
10°-20°	1443.0	10.0
20°-30°	2098.3	14.5
30°-40°	2496.9	17.2
40°-50°	2592.7	17.9
50°-60°	2348.8	16.2
60°-70°	1772.4	12.2
70°-80°	965.7	6.7
80°-90°	212.2	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
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0°-30°	4092.2	28.3
0°-40°	6589.1	45.5
0°-60°	11530.6	79.6
0°-90°	14481.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14481.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6234	6234	6234	6234	6234	
5°	5963	5949	5921	5918	5921	553
15°	5106	5094	5097	5131	5147	1441
25°	4483	4521	4557	4594	4583	2066
35°	3887	3933	4000	4061	4041	2430
45°	3228	3285	3396	3433	3436	2495
55°	2489	2548	2681	2700	2692	2223
65°	1676	1724	1848	1844	1835	1657
75°	846	880	935	941	925	901
85°	160	162	164	162	157	202
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6234.3	6234.3	6234.3	6234.3	6234.3
2.5°	6179.7	6173.5	6153.3	6145.4	6143.9
5°	5963.2	5949.2	5921.1	5918.1	5921.1
7.5°	5704.6	5689.0	5661.1	5671.9	5686.0
10°	5486.5	5447.6	5436.6	5452.2	5478.7
12.5°	5291.8	5260.6	5251.2	5291.8	5310.6
15°	5106.4	5093.9	5097.1	5131.4	5146.9
17.5°	4946.0	4938.2	4958.5	4985.0	4992.8
20°	4785.5	4801.2	4819.8	4847.9	4857.2
22.5°	4628.2	4657.8	4689.0	4726.3	4713.9
25°	4483.4	4520.7	4556.6	4593.9	4583.1
27.5°	4329.1	4372.7	4422.6	4463.1	4447.5
30°	4181.1	4235.6	4283.9	4333.7	4310.4
32.5°	4034.7	4086.1	4143.7	4204.5	4178.0
35°	3886.7	3933.4	4000.4	4061.2	4041.0
37.5°	3723.2	3780.8	3857.0	3910.0	3896.1
40°	3570.5	3623.4	3715.3	3749.6	3746.5
42.5°	3416.2	3459.9	3556.4	3595.4	3589.1
45°	3227.8	3285.4	3396.0	3433.4	3436.5
47.5°	3061.1	3109.4	3227.8	3257.3	3263.5
50°	2869.5	2930.2	3048.6	3084.4	3089.1
52.5°	2680.9	2746.3	2867.9	2892.8	2897.5
55°	2489.3	2548.5	2680.9	2699.7	2691.9
57.5°	2288.4	2360.1	2481.6	2490.9	2498.7
60°	2092.0	2154.4	2272.8	2285.2	2268.2
62.5°	1878.7	1942.5	2064.1	2067.2	2053.1
65°	1676.1	1724.5	1847.5	1844.4	1835.0
67.5°	1464.3	1523.5	1613.9	1616.9	1609.3
70°	1266.4	1307.0	1394.2	1395.8	1377.1
72.5°	1053.1	1096.7	1166.7	1157.5	1152.8
75°	845.9	880.2	934.7	941.0	925.3
77.5°	655.9	680.8	721.3	716.6	699.4
80°	461.1	481.3	511.0	504.8	486.0
82.5°	294.4	306.9	325.6	317.8	310.0
85°	160.5	161.9	163.5	161.9	157.3
87.5°	59.2	60.8	60.8	59.2	54.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)