

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: P489909

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-5HI-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: P489909
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-LD4-5HI-50-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

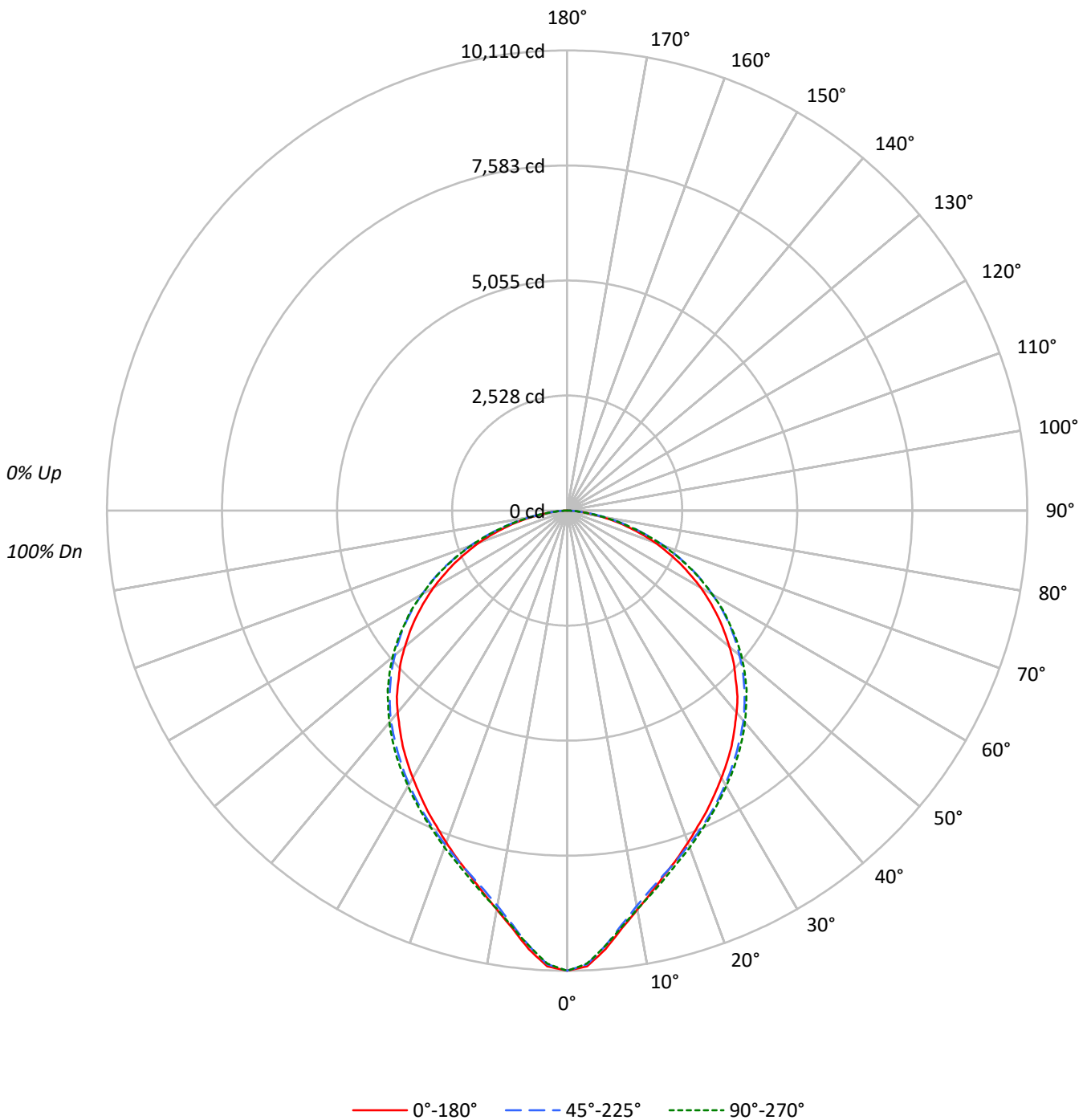
Lumens per Lamp: N/A
Luminaire Lumens: 23482.7 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 216
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°	13602	13602	13602
5°	13061	12968	12968
10°	12156	12045	12138
15°	11534	11514	11626
20°	11112	11191	11278
25°	10793	10970	11033
30°	10534	10793	10860
35°	10352	10655	10763
40°	10170	10582	10671
45°	9960	10479	10604
50°	9740	10348	10486
55°	9469	10198	10240
60°	9129	9918	9898
65°	8653	9538	9474
70°	8079	8894	8785
75°	7131	7880	7800
80°	5793	6420	6106
85°	4018	4094	3938



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	893.3	3.8
10°-20°	2339.9	10.0
20°-30°	3402.7	14.5
30°-40°	4049.1	17.2
40°-50°	4204.4	17.9
50°-60°	3808.9	16.2
60°-70°	2874.2	12.2
70°-80°	1566.0	6.7
80°-90°	344.1	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°	6635.9	28.3
0°-40°	10685.0	45.5
0°-60°	18698.3	79.6
0°-90°	23482.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	23482.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10110	10110	10110	10110	10110	
5°	9670	9647	9602	9597	9602	897
15°	8281	8260	8266	8321	8346	2337
25°	7270	7331	7389	7450	7432	3350
35°	6303	6378	6487	6586	6553	3940
45°	5234	5328	5507	5568	5573	4046
55°	4037	4133	4347	4378	4365	3604
65°	2718	2796	2996	2991	2976	2687
75°	1372	1427	1516	1526	1500	1461
85°	260	263	265	263	255	328
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10109.7	10109.7	10109.7	10109.7	10109.7
2.5°	10021.2	10011.1	9978.3	9965.6	9963.0
5°	9670.1	9647.4	9601.8	9596.9	9601.8
7.5°	9250.8	9225.4	9180.1	9197.7	9220.5
10°	8897.1	8834.0	8816.1	8841.5	8884.4
12.5°	8581.2	8530.8	8515.5	8581.2	8611.7
15°	8280.6	8260.4	8265.6	8321.2	8346.3
17.5°	8020.6	8007.9	8040.8	8083.7	8096.4
20°	7760.3	7785.7	7815.9	7861.5	7876.5
22.5°	7505.2	7553.1	7603.8	7664.3	7644.2
25°	7270.3	7330.9	7389.1	7449.6	7432.0
27.5°	7020.1	7090.8	7171.7	7237.5	7212.1
30°	6780.1	6868.5	6946.9	7027.7	6989.9
32.5°	6542.8	6626.1	6719.5	6818.1	6775.1
35°	6302.7	6378.5	6487.2	6585.8	6552.9
37.5°	6037.5	6131.0	6254.6	6340.5	6318.0
40°	5790.0	5875.9	6024.9	6080.5	6075.3
42.5°	5539.8	5610.7	5767.2	5830.3	5820.2
45°	5234.2	5327.7	5507.0	5567.7	5572.7
47.5°	4963.9	5042.3	5234.2	5282.1	5292.2
50°	4653.2	4751.7	4943.7	5001.7	5009.4
52.5°	4347.4	4453.5	4650.6	4691.0	4698.7
55°	4036.7	4132.7	4347.4	4377.9	4365.2
57.5°	3711.0	3827.1	4024.2	4039.3	4051.9
60°	3392.5	3493.6	3685.6	3705.8	3678.1
62.5°	3046.6	3150.1	3347.2	3352.1	3329.4
65°	2718.0	2796.4	2995.9	2991.0	2975.7
67.5°	2374.5	2470.5	2617.1	2622.1	2609.6
70°	2053.7	2119.4	2260.9	2263.5	2233.2
72.5°	1707.7	1778.4	1892.0	1876.9	1869.4
75°	1371.7	1427.3	1515.8	1525.9	1500.5
77.5°	1063.6	1103.9	1169.6	1162.1	1134.2
80°	747.7	780.5	828.6	818.5	788.1
82.5°	477.3	497.7	528.0	515.4	502.7
85°	260.3	262.6	265.2	262.6	255.1
87.5°	96.0	98.6	98.6	96.0	88.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)