

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: P489899

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-5HI-20-120-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: P489899
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-20-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

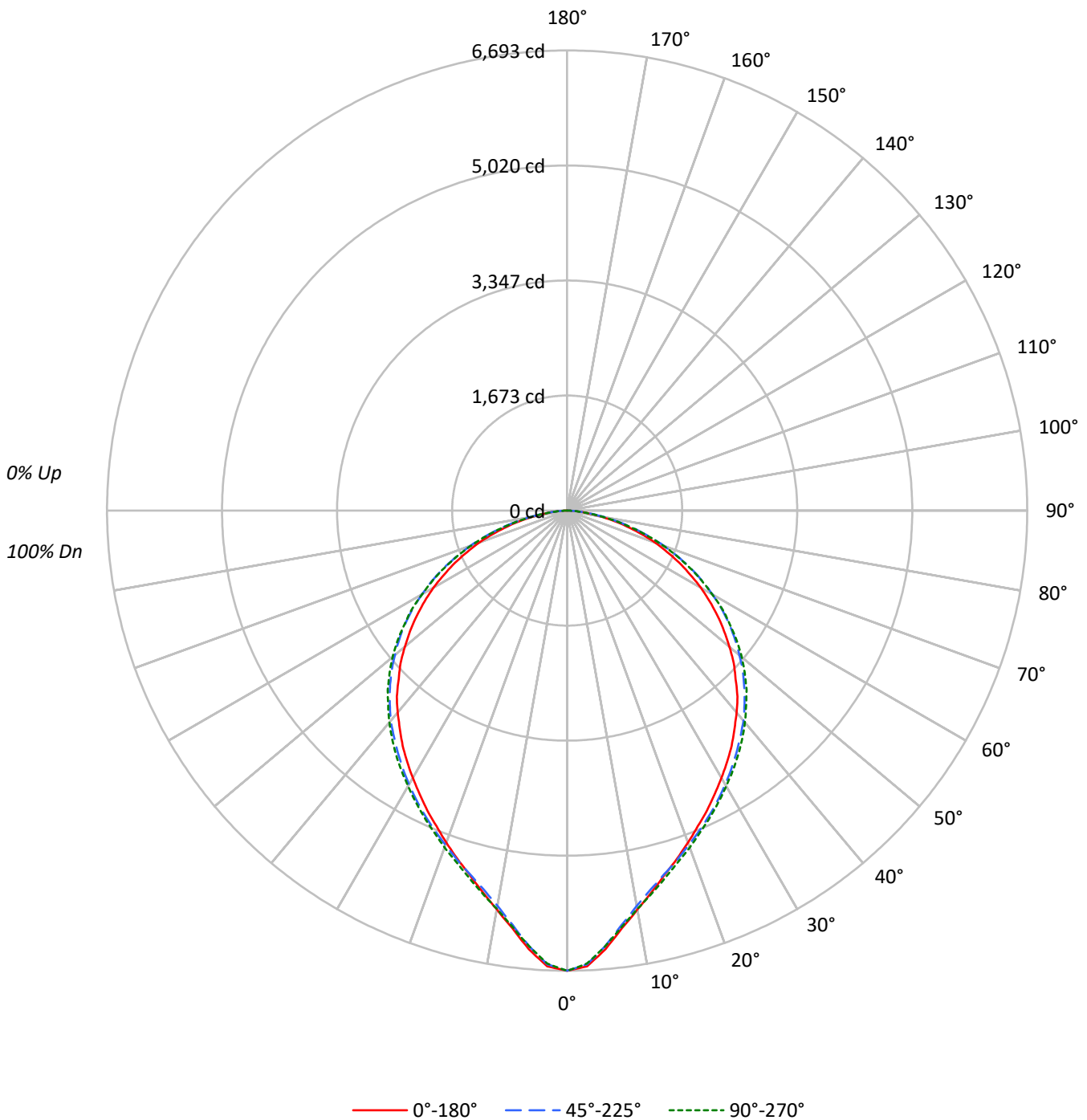
Lumens per Lamp: N/A
Luminaire Lumens: 15546.4 lumens
Efficiency: N/A
Efficacy: 72.0 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	9005	9005	9005
5°	8647	8586	8586
10°	8047	7974	8036
15°	7636	7622	7697
20°	7356	7409	7466
25°	7146	7262	7305
30°	6974	7145	7189
35°	6854	7054	7126
40°	6733	7006	7064
45°	6594	6937	7020
50°	6448	6851	6942
55°	6269	6751	6779
60°	6044	6566	6553
65°	5729	6315	6272
70°	5349	5888	5816
75°	4721	5217	5164
80°	3835	4251	4042
85°	2660	2711	2607



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	591.4	3.8
10°-20°	1549.1	10.0
20°-30°	2252.7	14.5
30°-40°	2680.6	17.2
40°-50°	2783.5	17.9
50°-60°	2521.6	16.2
60°-70°	1902.8	12.2
70°-80°	1036.8	6.7
80°-90°	227.8	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°	4393.2	28.3
0°-40°	7073.9	45.5
0°-60°	12379.0	79.6
0°-90°	15546.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15546.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6693	6693	6693	6693	6693	
5°	6402	6387	6357	6354	6357	594
15°	5482	5469	5472	5509	5526	1547
25°	4813	4853	4892	4932	4920	2218
35°	4173	4223	4295	4360	4338	2609
45°	3465	3527	3646	3686	3689	2679
55°	2672	2736	2878	2898	2890	2386
65°	1799	1851	1983	1980	1970	1779
75°	908	945	1004	1010	993	967
85°	172	174	176	174	169	217
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6693.0	6693.0	6693.0	6693.0	6693.0
2.5°	6634.4	6627.7	6606.0	6597.6	6595.9
5°	6402.0	6386.9	6356.8	6353.5	6356.8
7.5°	6124.3	6107.6	6077.6	6089.2	6104.3
10°	5890.2	5848.4	5836.6	5853.4	5881.8
12.5°	5681.1	5647.7	5637.6	5681.1	5701.3
15°	5482.1	5468.7	5472.1	5508.9	5525.6
17.5°	5309.9	5301.5	5323.3	5351.7	5360.1
20°	5137.6	5154.4	5174.4	5204.6	5214.5
22.5°	4968.7	5000.4	5034.0	5074.1	5060.7
25°	4813.2	4853.3	4891.8	4931.9	4920.3
27.5°	4647.6	4694.4	4748.0	4791.5	4774.7
30°	4488.7	4547.2	4599.1	4652.6	4627.5
32.5°	4331.6	4386.7	4448.6	4513.8	4485.4
35°	4172.6	4222.8	4294.8	4360.0	4338.3
37.5°	3997.1	4058.9	4140.8	4197.7	4182.7
40°	3833.2	3890.0	3988.7	4025.5	4022.1
42.5°	3667.6	3714.5	3818.1	3859.9	3853.2
45°	3465.3	3527.1	3645.8	3686.0	3689.3
47.5°	3286.3	3338.2	3465.3	3497.0	3503.6
50°	3080.6	3145.8	3272.9	3311.3	3316.4
52.5°	2878.1	2948.4	3078.9	3105.6	3110.7
55°	2672.4	2736.0	2878.1	2898.3	2889.9
57.5°	2456.8	2533.7	2664.2	2674.1	2682.5
60°	2246.0	2312.9	2440.0	2453.4	2435.0
62.5°	2016.9	2085.5	2216.0	2219.2	2204.2
65°	1799.4	1851.3	1983.4	1980.1	1970.0
67.5°	1572.0	1635.5	1732.6	1735.9	1727.7
70°	1359.6	1403.1	1496.8	1498.5	1478.5
72.5°	1130.6	1177.4	1252.6	1242.6	1237.6
75°	908.1	944.9	1003.5	1010.2	993.4
77.5°	704.1	730.8	774.3	769.4	750.9
80°	495.0	516.7	548.6	541.9	521.7
82.5°	316.0	329.5	349.6	341.2	332.8
85°	172.3	173.9	175.6	173.9	168.9
87.5°	63.5	65.3	65.3	63.5	58.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)