

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: P489929

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-5STD-35-120-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: P489929
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-LD4-5STD-35-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

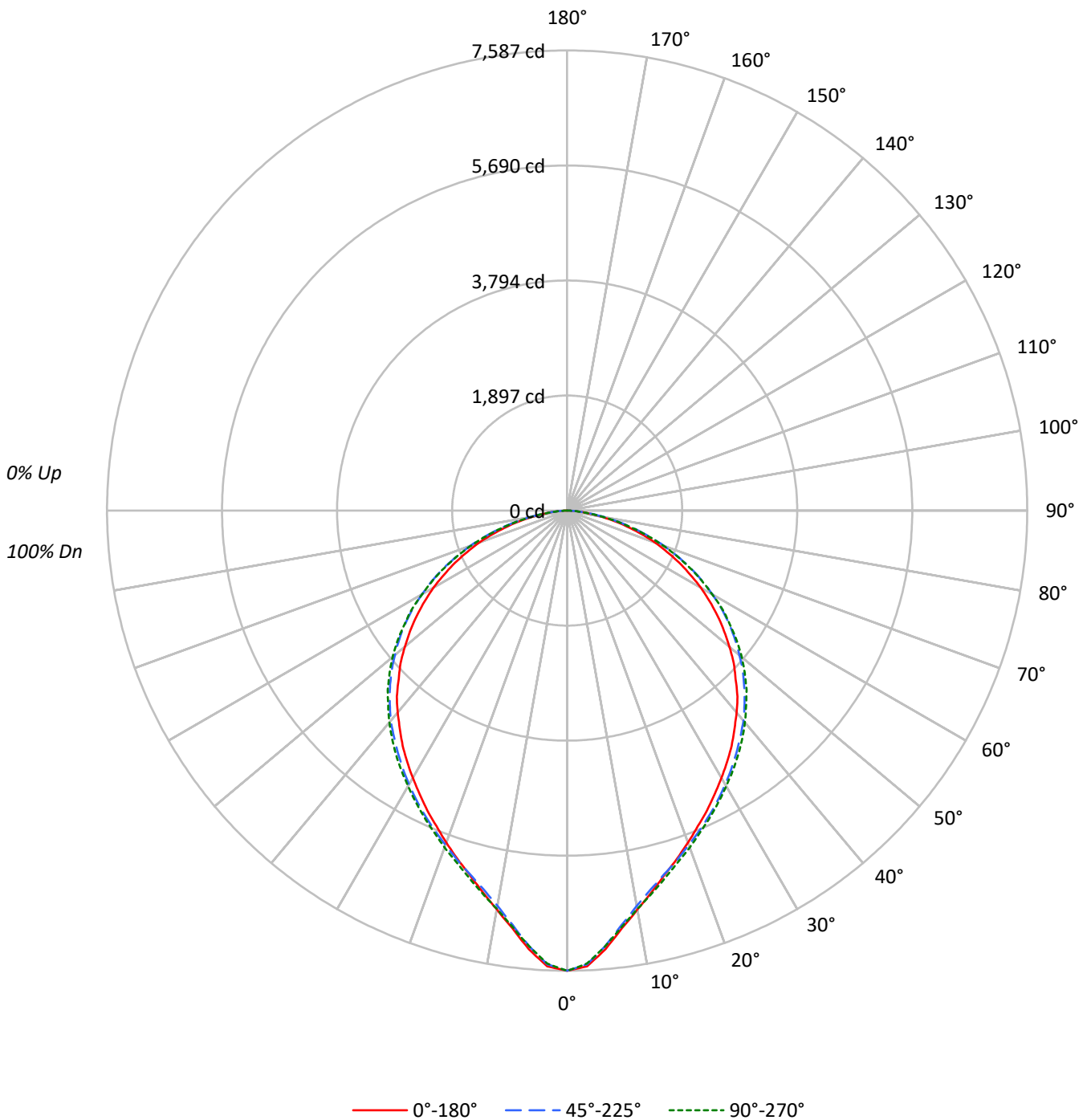
Lumens per Lamp: N/A
Luminaire Lumens: 17623.0 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 166.5
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°	10208	10208	10208
5°	9802	9732	9732
10°	9122	9039	9109
15°	8656	8640	8725
20°	8339	8399	8464
25°	8100	8232	8280
30°	7905	8100	8150
35°	7769	7997	8078
40°	7632	7942	8008
45°	7474	7864	7958
50°	7310	7766	7869
55°	7106	7653	7685
60°	6851	7443	7428
65°	6494	7158	7110
70°	6063	6675	6593
75°	5351	5913	5854
80°	4348	4819	4582
85°	3015	3072	2955



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	670.4	3.8
10°-20°	1756.0	10.0
20°-30°	2553.6	14.5
30°-40°	3038.7	17.2
40°-50°	3155.2	17.9
50°-60°	2858.5	16.2
60°-70°	2157.0	12.2
70°-80°	1175.3	6.7
80°-90°	258.3	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°	4980.0	28.3
0°-40°	8018.8	45.5
0°-60°	14032.5	79.6
0°-90°	17623.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17623.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7587	7587	7587	7587	7587	
5°	7257	7240	7206	7202	7206	674
15°	6214	6199	6203	6245	6264	1754
25°	5456	5502	5545	5591	5578	2514
35°	4730	4787	4868	4942	4918	2957
45°	3928	3998	4133	4178	4182	3036
55°	3029	3101	3263	3286	3276	2705
65°	2040	2099	2248	2245	2233	2017
75°	1029	1071	1138	1145	1126	1097
85°	195	197	199	197	191	246
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7587.0	7587.0	7587.0	7587.0	7587.0
2.5°	7520.6	7513.0	7488.4	7478.9	7476.9
5°	7257.1	7240.0	7205.9	7202.2	7205.9
7.5°	6942.4	6923.4	6889.4	6902.6	6919.7
10°	6677.0	6629.6	6616.2	6635.2	6667.5
12.5°	6439.9	6402.1	6390.6	6439.9	6462.8
15°	6214.3	6199.2	6203.0	6244.8	6263.6
17.5°	6019.2	6009.7	6034.3	6066.6	6076.1
20°	5823.9	5842.9	5865.6	5899.8	5911.0
22.5°	5632.4	5668.4	5706.4	5751.8	5736.7
25°	5456.1	5501.6	5545.2	5590.7	5577.5
27.5°	5268.4	5321.4	5382.2	5431.5	5412.5
30°	5088.2	5154.6	5213.4	5274.0	5245.7
32.5°	4910.2	4972.7	5042.8	5116.8	5084.5
35°	4730.0	4786.9	4868.4	4942.4	4917.7
37.5°	4531.0	4601.1	4693.9	4758.4	4741.4
40°	4345.2	4409.6	4521.5	4563.2	4559.3
42.5°	4157.4	4210.6	4328.1	4375.5	4367.9
45°	3928.1	3998.2	4132.8	4178.4	4182.1
47.5°	3725.2	3784.1	3928.1	3964.1	3971.6
50°	3492.1	3566.0	3710.1	3753.6	3759.4
52.5°	3262.6	3342.2	3490.1	3520.4	3526.2
55°	3029.4	3101.4	3262.6	3285.5	3276.0
57.5°	2784.9	2872.1	3020.1	3031.3	3040.9
60°	2546.0	2621.9	2765.9	2781.1	2760.3
62.5°	2286.4	2364.0	2512.0	2515.7	2498.6
65°	2039.8	2098.6	2248.3	2244.6	2233.2
67.5°	1782.0	1854.0	1964.1	1967.8	1958.4
70°	1541.2	1590.5	1696.7	1698.7	1675.9
72.5°	1281.6	1334.6	1419.9	1408.6	1402.9
75°	1029.4	1071.1	1137.5	1145.1	1126.1
77.5°	798.2	828.5	877.8	872.1	851.2
80°	561.1	585.8	621.9	614.3	591.4
82.5°	358.2	373.5	396.3	386.8	377.2
85°	195.3	197.1	199.0	197.1	191.4
87.5°	72.0	74.0	74.0	72.0	66.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)