

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: P489925

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-5STD-27-120-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: P489925
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-27-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

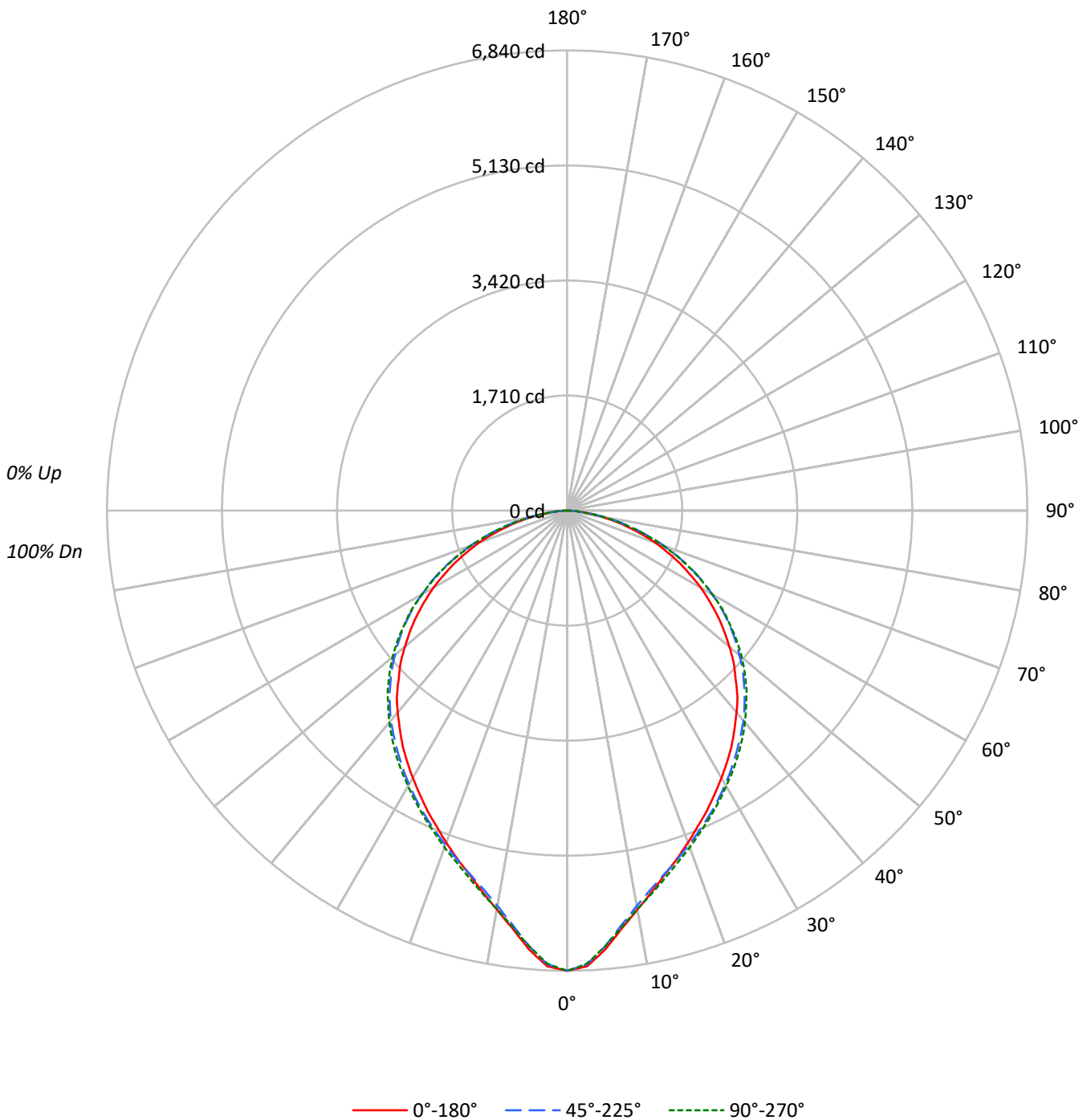
Lumens per Lamp: N/A
Luminaire Lumens: 15887.3 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	9203	9203	9203
5°	8836	8774	8774
10°	8224	8149	8212
15°	7804	7790	7866
20°	7518	7571	7630
25°	7302	7422	7465
30°	7127	7302	7347
35°	7004	7209	7282
40°	6880	7159	7219
45°	6738	7089	7174
50°	6590	7001	7094
55°	6406	6900	6928
60°	6176	6710	6696
65°	5855	6453	6409
70°	5466	6017	5944
75°	4824	5331	5278
80°	3920	4344	4131
85°	2719	2770	2665



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	604.4	3.8
10°-20°	1583.1	10.0
20°-30°	2302.1	14.5
30°-40°	2739.4	17.2
40°-50°	2844.5	17.9
50°-60°	2577.0	16.2
60°-70°	1944.6	12.2
70°-80°	1059.5	6.7
80°-90°	232.8	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°	4489.6	28.3
0°-40°	7229.0	45.5
0°-60°	12650.4	79.6
0°-90°	15887.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15887.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6840	6840	6840	6840	6840	
5°	6542	6527	6496	6493	6496	607
15°	5602	5589	5592	5630	5647	1581
25°	4919	4960	4999	5040	5028	2267
35°	4264	4315	4389	4456	4433	2666
45°	3541	3604	3726	3767	3770	2737
55°	2731	2796	2941	2962	2953	2438
65°	1839	1892	2027	2024	2013	1818
75°	928	966	1026	1032	1015	989
85°	176	178	179	178	173	222
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6839.7	6839.7	6839.7	6839.7	6839.7
2.5°	6779.9	6773.1	6750.8	6742.3	6740.5
5°	6542.4	6527.0	6496.2	6492.8	6496.2
7.5°	6258.6	6241.5	6210.8	6222.7	6238.1
10°	6019.4	5976.7	5964.6	5981.7	6010.8
12.5°	5805.7	5771.5	5761.2	5805.7	5826.3
15°	5602.3	5588.6	5592.1	5629.7	5646.7
17.5°	5426.3	5417.8	5440.0	5469.1	5477.6
20°	5250.3	5267.4	5287.9	5318.7	5328.9
22.5°	5077.7	5110.1	5144.4	5185.3	5171.7
25°	4918.8	4959.7	4999.1	5040.1	5028.1
27.5°	4749.5	4797.3	4852.1	4896.5	4879.4
30°	4587.1	4646.9	4700.0	4754.6	4729.0
32.5°	4426.6	4482.9	4546.1	4612.8	4583.7
35°	4264.1	4315.4	4388.9	4455.6	4433.4
37.5°	4084.7	4147.9	4231.6	4289.7	4274.5
40°	3917.2	3975.3	4076.2	4113.8	4110.3
42.5°	3748.0	3795.9	3901.8	3944.5	3937.7
45°	3541.2	3604.4	3725.7	3766.9	3770.2
47.5°	3358.3	3411.4	3541.2	3573.6	3580.5
50°	3148.1	3214.8	3344.7	3383.9	3389.1
52.5°	2941.3	3013.0	3146.4	3173.7	3178.9
55°	2731.0	2796.0	2941.3	2961.9	2953.3
57.5°	2510.7	2589.3	2722.6	2732.8	2741.4
60°	2295.2	2363.6	2493.5	2507.2	2488.4
62.5°	2061.2	2131.2	2264.6	2267.9	2252.5
65°	1838.9	1891.9	2026.9	2023.5	2013.2
67.5°	1606.5	1671.4	1770.6	1774.0	1765.5
70°	1389.4	1433.9	1529.6	1531.4	1510.9
72.5°	1155.4	1203.2	1280.0	1269.9	1264.8
75°	928.0	965.6	1025.5	1032.3	1015.2
77.5°	719.6	746.9	791.3	786.2	767.3
80°	505.9	528.1	560.6	553.8	533.2
82.5°	322.9	336.7	357.2	348.7	340.1
85°	176.1	177.7	179.4	177.7	172.6
87.5°	64.9	66.7	66.7	64.9	59.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)