

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: P489917

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-5LO-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: P489917
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-LD4-5LO-35-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

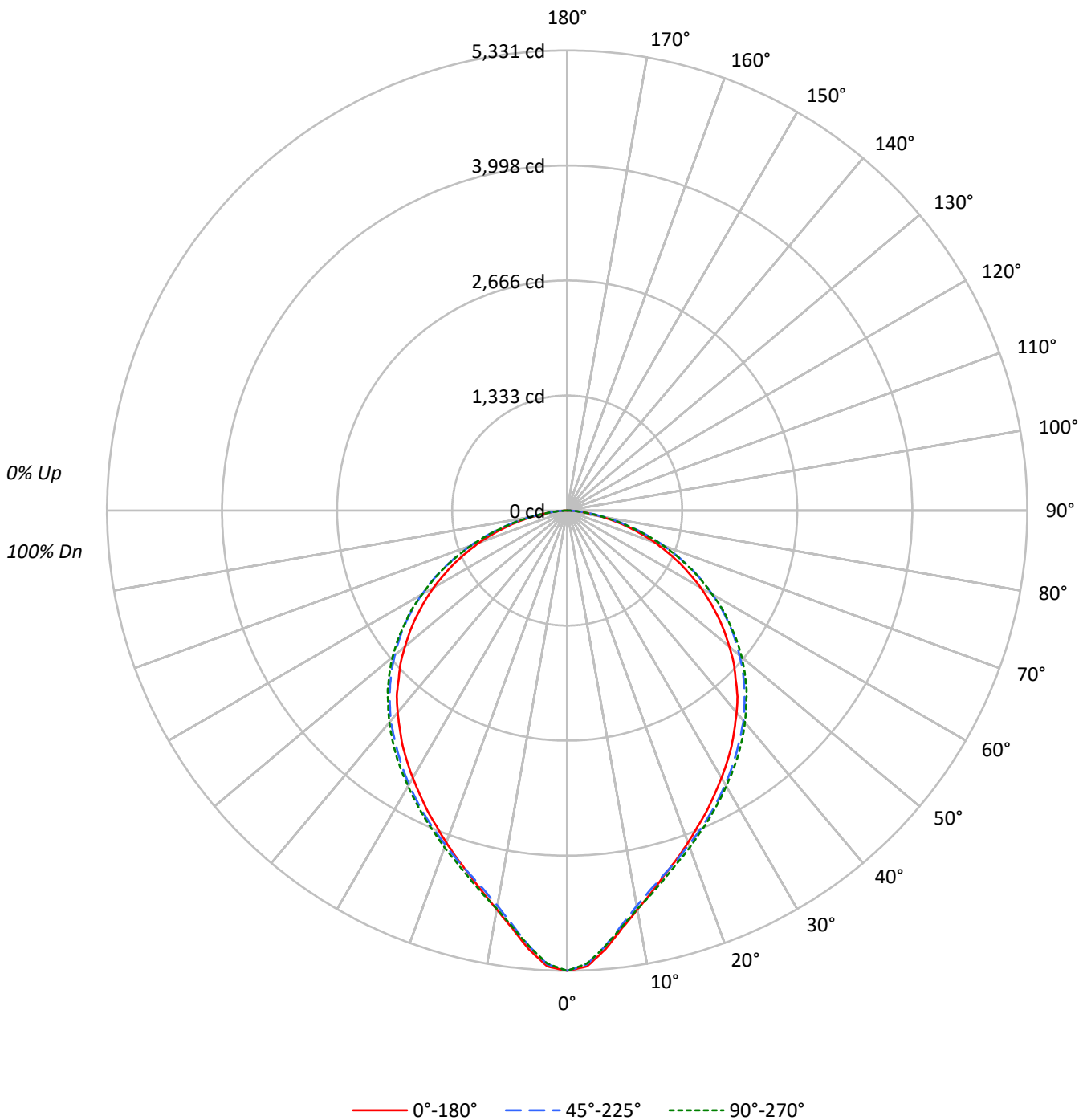
Lumens per Lamp: N/A
Luminaire Lumens: 12383.8 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 117
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°	7173	7173	7173
5°	6888	6839	6839
10°	6410	6352	6401
15°	6083	6072	6131
20°	5860	5902	5947
25°	5692	5785	5819
30°	5555	5692	5727
35°	5459	5619	5676
40°	5363	5581	5627
45°	5252	5526	5592
50°	5137	5457	5530
55°	4994	5378	5400
60°	4814	5230	5220
65°	4564	5030	4996
70°	4260	4690	4633
75°	3761	4156	4114
80°	3055	3386	3220
85°	2118	2160	2076



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	471.1	3.8
10°-20°	1234.0	10.0
20°-30°	1794.4	14.5
30°-40°	2135.3	17.2
40°-50°	2217.2	17.9
50°-60°	2008.7	16.2
60°-70°	1515.7	12.2
70°-80°	825.9	6.7
80°-90°	181.5	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°	3499.5	28.3
0°-40°	5634.8	45.5
0°-60°	9860.7	79.6
0°-90°	12383.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12383.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5331	5331	5331	5331	5331	
5°	5100	5088	5064	5061	5064	473
15°	4367	4356	4359	4388	4402	1233
25°	3834	3866	3897	3929	3919	1767
35°	3324	3364	3421	3473	3456	2078
45°	2760	2810	2904	2936	2939	2134
55°	2129	2179	2293	2309	2302	1901
65°	1433	1475	1580	1577	1569	1417
75°	723	753	799	805	791	771
85°	137	138	140	138	134	173
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5331.4	5331.4	5331.4	5331.4	5331.4
2.5°	5284.8	5279.4	5262.1	5255.4	5254.1
5°	5099.6	5087.6	5063.6	5061.0	5063.6
7.5°	4878.5	4865.1	4841.2	4850.5	4862.5
10°	4692.0	4658.7	4649.3	4662.6	4685.3
12.5°	4525.4	4498.8	4490.7	4525.4	4541.5
15°	4366.8	4356.2	4358.9	4388.3	4401.5
17.5°	4229.7	4223.0	4240.4	4263.0	4269.7
20°	4092.5	4105.8	4121.8	4145.8	4153.7
22.5°	3957.9	3983.2	4009.9	4041.9	4031.2
25°	3834.1	3866.0	3896.7	3928.6	3919.3
27.5°	3702.1	3739.4	3782.1	3816.7	3803.4
30°	3575.5	3622.2	3663.5	3706.1	3686.2
32.5°	3450.4	3494.3	3543.6	3595.6	3572.9
35°	3323.8	3363.8	3421.1	3473.1	3455.7
37.5°	3184.0	3233.2	3298.4	3343.7	3331.8
40°	3053.4	3098.7	3177.3	3206.6	3203.9
42.5°	2921.5	2958.8	3041.4	3074.7	3069.4
45°	2760.3	2809.6	2904.1	2936.2	2938.8
47.5°	2617.8	2659.1	2760.3	2785.6	2790.9
50°	2453.9	2505.9	2607.1	2637.7	2641.8
52.5°	2292.6	2348.6	2452.5	2473.8	2477.9
55°	2128.8	2179.4	2292.6	2308.7	2302.0
57.5°	1957.0	2018.3	2122.2	2130.1	2136.8
60°	1789.1	1842.4	1943.6	1954.3	1939.7
62.5°	1606.6	1661.2	1765.2	1767.8	1755.8
65°	1433.4	1474.7	1579.9	1577.3	1569.3
67.5°	1252.2	1302.8	1380.2	1382.8	1376.2
70°	1083.0	1117.7	1192.3	1193.7	1177.7
72.5°	900.6	937.8	997.8	989.8	985.9
75°	723.4	752.7	799.4	804.7	791.3
77.5°	560.9	582.2	616.8	612.9	598.1
80°	394.3	411.6	437.0	431.7	415.6
82.5°	251.7	262.5	278.5	271.8	265.1
85°	137.2	138.5	139.9	138.5	134.5
87.5°	50.6	52.0	52.0	50.6	46.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)