

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: P489893

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-4STD-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: P489893
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-LD4-4STD-35-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

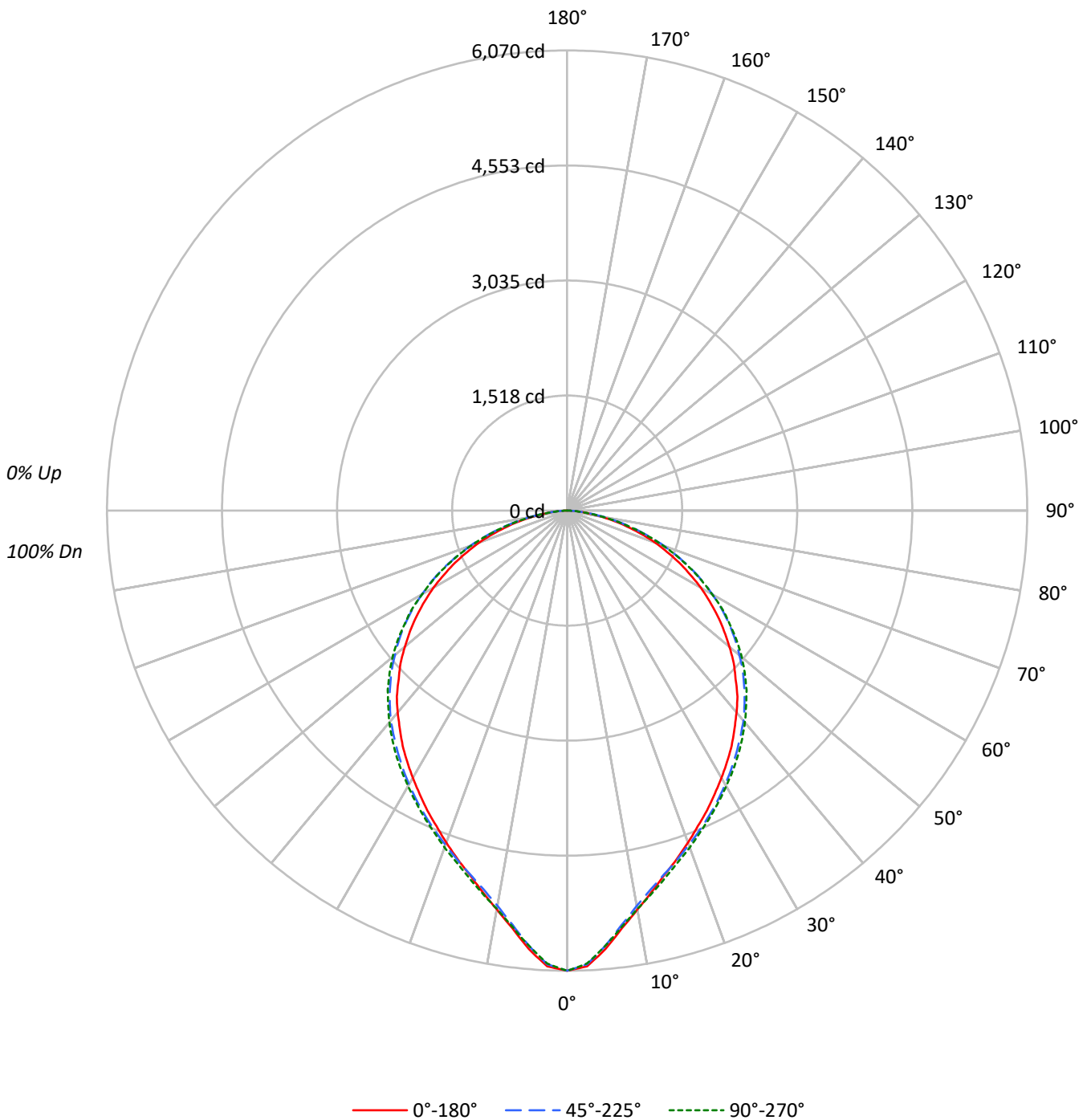
Lumens per Lamp: N/A
Luminaire Lumens: 14098.4 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 133.2
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°	8167	8167	8167
5°	7841	7786	7786
10°	7298	7232	7288
15°	6925	6912	6980
20°	6671	6719	6771
25°	6480	6586	6624
30°	6324	6480	6520
35°	6215	6397	6462
40°	6105	6353	6407
45°	5980	6291	6366
50°	5848	6213	6295
55°	5685	6123	6148
60°	5481	5954	5942
65°	5195	5727	5688
70°	4851	5340	5274
75°	4281	4731	4683
80°	3478	3855	3666
85°	2411	2458	2365



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	536.3	3.8
10°-20°	1404.8	10.0
20°-30°	2042.9	14.5
30°-40°	2431.0	17.2
40°-50°	2524.2	17.9
50°-60°	2286.8	16.2
60°-70°	1725.6	12.2
70°-80°	940.2	6.7
80°-90°	206.6	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°	3984.0	28.3
0°-40°	6415.0	45.5
0°-60°	11226.0	79.6
0°-90°	14098.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14098.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6070	6070	6070	6070	6070	
5°	5806	5792	5765	5762	5765	539
15°	4972	4959	4962	4996	5011	1403
25°	4365	4401	4436	4473	4462	2011
35°	3784	3830	3895	3954	3934	2366
45°	3142	3199	3306	3343	3346	2429
55°	2424	2481	2610	2628	2621	2164
65°	1632	1679	1799	1796	1786	1613
75°	824	857	910	916	901	877
85°	156	158	159	158	153	197
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6069.6	6069.6	6069.6	6069.6	6069.6
2.5°	6016.5	6010.4	5990.7	5983.1	5981.5
5°	5805.7	5792.0	5764.7	5761.7	5764.7
7.5°	5553.9	5538.7	5511.5	5522.1	5535.7
10°	5341.6	5303.7	5293.0	5308.2	5334.0
12.5°	5151.9	5121.7	5112.5	5151.9	5170.3
15°	4971.5	4959.3	4962.4	4995.8	5010.9
17.5°	4815.3	4807.7	4827.5	4853.2	4860.9
20°	4659.1	4674.3	4692.5	4719.8	4728.8
22.5°	4505.9	4534.7	4565.1	4601.5	4589.3
25°	4364.9	4401.3	4436.2	4472.6	4462.0
27.5°	4214.7	4257.1	4305.7	4345.2	4330.0
30°	4070.6	4123.7	4170.8	4219.2	4196.5
32.5°	3928.1	3978.1	4034.2	4093.4	4067.6
35°	3784.0	3829.5	3894.7	3953.9	3934.2
37.5°	3624.8	3680.9	3755.1	3806.7	3793.2
40°	3476.1	3527.7	3617.2	3650.6	3647.5
42.5°	3326.0	3368.5	3462.5	3500.4	3494.3
45°	3142.5	3198.6	3306.2	3342.7	3345.7
47.5°	2980.2	3027.3	3142.5	3171.3	3177.3
50°	2793.7	2852.8	2968.1	3002.9	3007.5
52.5°	2610.1	2673.8	2792.1	2816.3	2821.0
55°	2423.5	2481.2	2610.1	2628.4	2620.8
57.5°	2228.0	2297.7	2416.1	2425.1	2432.7
60°	2036.8	2097.5	2212.7	2224.9	2208.2
62.5°	1829.1	1891.2	2009.6	2012.5	1998.9
65°	1631.8	1678.9	1798.7	1795.7	1786.5
67.5°	1425.6	1483.2	1571.3	1574.2	1566.7
70°	1233.0	1272.4	1357.4	1358.9	1340.7
72.5°	1025.3	1067.7	1135.9	1126.9	1122.4
75°	823.5	856.9	910.0	916.1	900.9
77.5°	638.5	662.8	702.2	697.7	680.9
80°	448.9	468.6	497.5	491.4	473.1
82.5°	286.6	298.8	317.0	309.4	301.8
85°	156.2	157.7	159.2	157.7	153.2
87.5°	57.6	59.2	59.2	57.6	53.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)