

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: P489362

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-5HI-30-120-EDD-90**

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: P489362
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-24-2-INS-P12125-LD4-5HI-30-120-EDD-90
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

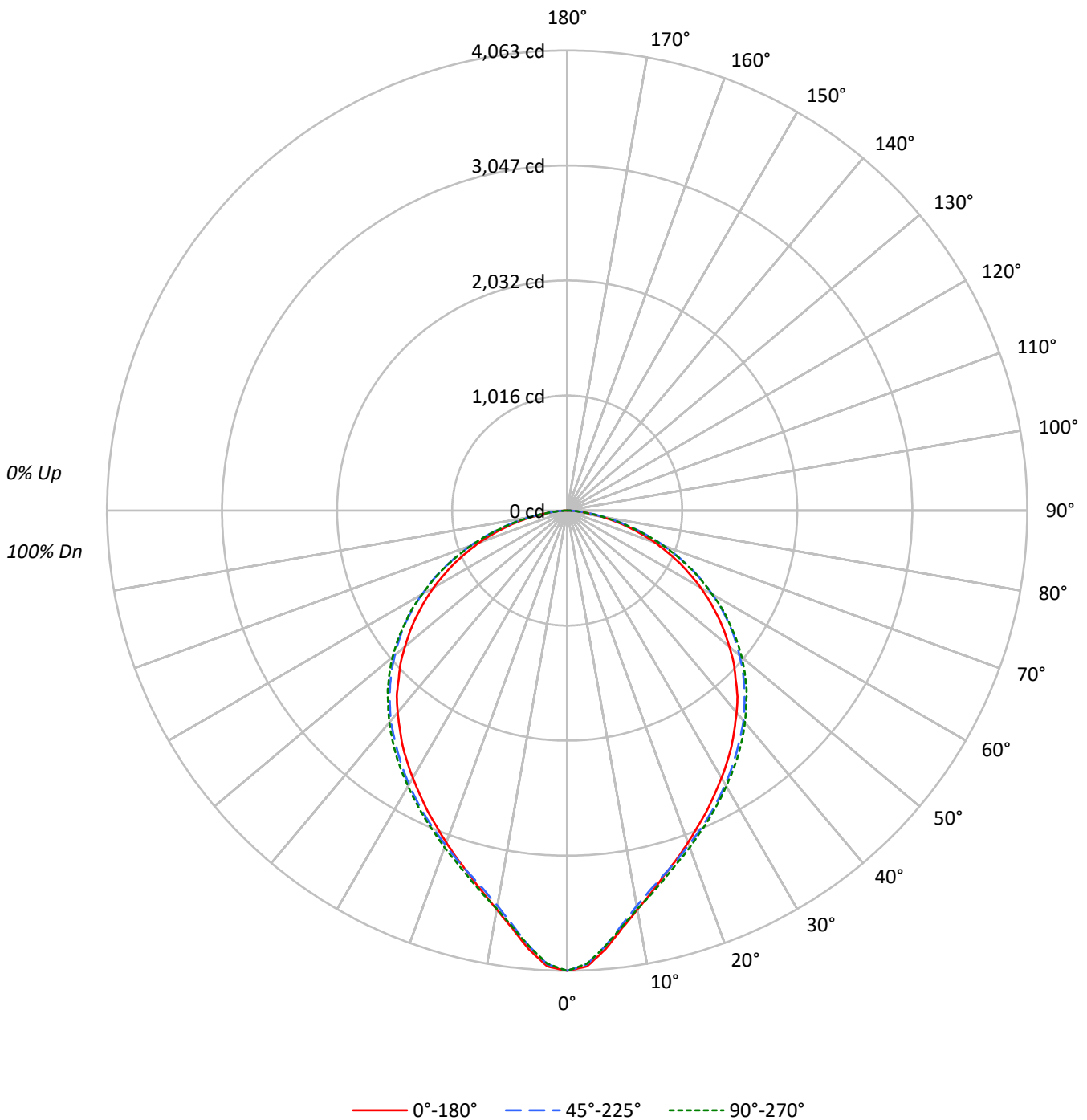
Lumens per Lamp: N/A
Luminaire Lumens: 9438.5 lumens
Efficiency: N/A
Efficacy: 87.4 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 108
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°	10935	10935	10935
5°	10499	10425	10425
10°	9771	9683	9758
15°	9272	9255	9346
20°	8932	8996	9066
25°	8676	8818	8869
30°	8468	8676	8730
35°	8322	8566	8652
40°	8175	8507	8578
45°	8006	8423	8524
50°	7830	8318	8429
55°	7612	8198	8231
60°	7339	7973	7957
65°	6956	7668	7615
70°	6494	7150	7062
75°	5732	6334	6271
80°	4657	5162	4908
85°	3230	3291	3165



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	359.1	3.8
10°-20°	940.5	10.0
20°-30°	1367.7	14.5
30°-40°	1627.5	17.2
40°-50°	1689.9	17.9
50°-60°	1531.0	16.2
60°-70°	1155.3	12.2
70°-80°	629.4	6.7
80°-90°	138.3	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°	2667.2	28.3
0°-40°	4294.7	45.5
0°-60°	7515.5	79.6
0°-90°	9438.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9438.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4063	4063	4063	4063	4063	
5°	3887	3878	3859	3857	3859	361
15°	3328	3320	3322	3345	3355	939
25°	2922	2946	2970	2994	2987	1347
35°	2533	2564	2607	2647	2634	1584
45°	2104	2141	2213	2238	2240	1626
55°	1622	1661	1747	1760	1754	1449
65°	1092	1124	1204	1202	1196	1080
75°	551	574	609	613	603	587
85°	105	106	107	106	102	132
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4063.4	4063.4	4063.4	4063.4	4063.4
2.5°	4027.9	4023.8	4010.6	4005.5	4004.5
5°	3886.8	3877.6	3859.3	3857.3	3859.3
7.5°	3718.2	3708.0	3689.8	3696.9	3706.0
10°	3576.0	3550.7	3543.5	3553.7	3571.0
12.5°	3449.1	3428.8	3422.7	3449.1	3461.3
15°	3328.3	3320.1	3322.2	3344.6	3354.7
17.5°	3223.7	3218.7	3231.9	3249.1	3254.2
20°	3119.1	3129.3	3141.5	3159.8	3165.8
22.5°	3016.6	3035.9	3056.2	3080.6	3072.4
25°	2922.2	2946.5	2969.9	2994.3	2987.2
27.5°	2821.6	2850.0	2882.6	2909.0	2898.8
30°	2725.1	2760.7	2792.2	2824.7	2809.5
32.5°	2629.8	2663.3	2700.8	2740.4	2723.2
35°	2533.3	2563.8	2607.4	2647.0	2633.8
37.5°	2426.7	2464.2	2514.0	2548.5	2539.4
40°	2327.2	2361.7	2421.6	2444.0	2441.9
42.5°	2226.6	2255.1	2318.0	2343.4	2339.4
45°	2103.8	2141.4	2213.4	2237.9	2239.8
47.5°	1995.2	2026.7	2103.8	2123.1	2127.1
50°	1870.3	1909.9	1987.0	2010.4	2013.5
52.5°	1747.4	1790.0	1869.2	1885.5	1888.6
55°	1622.5	1661.1	1747.4	1759.6	1754.5
57.5°	1491.6	1538.3	1617.5	1623.5	1628.6
60°	1363.6	1404.2	1481.4	1489.5	1478.4
62.5°	1224.5	1266.1	1345.4	1347.3	1338.2
65°	1092.5	1124.0	1204.2	1202.2	1196.0
67.5°	954.4	993.0	1051.9	1053.9	1048.9
70°	825.4	851.9	908.7	909.8	897.6
72.5°	686.4	714.8	760.5	754.4	751.4
75°	551.3	573.7	609.2	613.3	603.1
77.5°	427.5	443.7	470.1	467.1	455.9
80°	300.5	313.7	333.1	329.0	316.7
82.5°	191.9	200.1	212.2	207.1	202.0
85°	104.6	105.6	106.6	105.6	102.5
87.5°	38.6	39.6	39.6	38.6	35.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)