

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: P489386

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-5STD-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: P489386
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-LD4-5STD-30-120-EDD-90
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

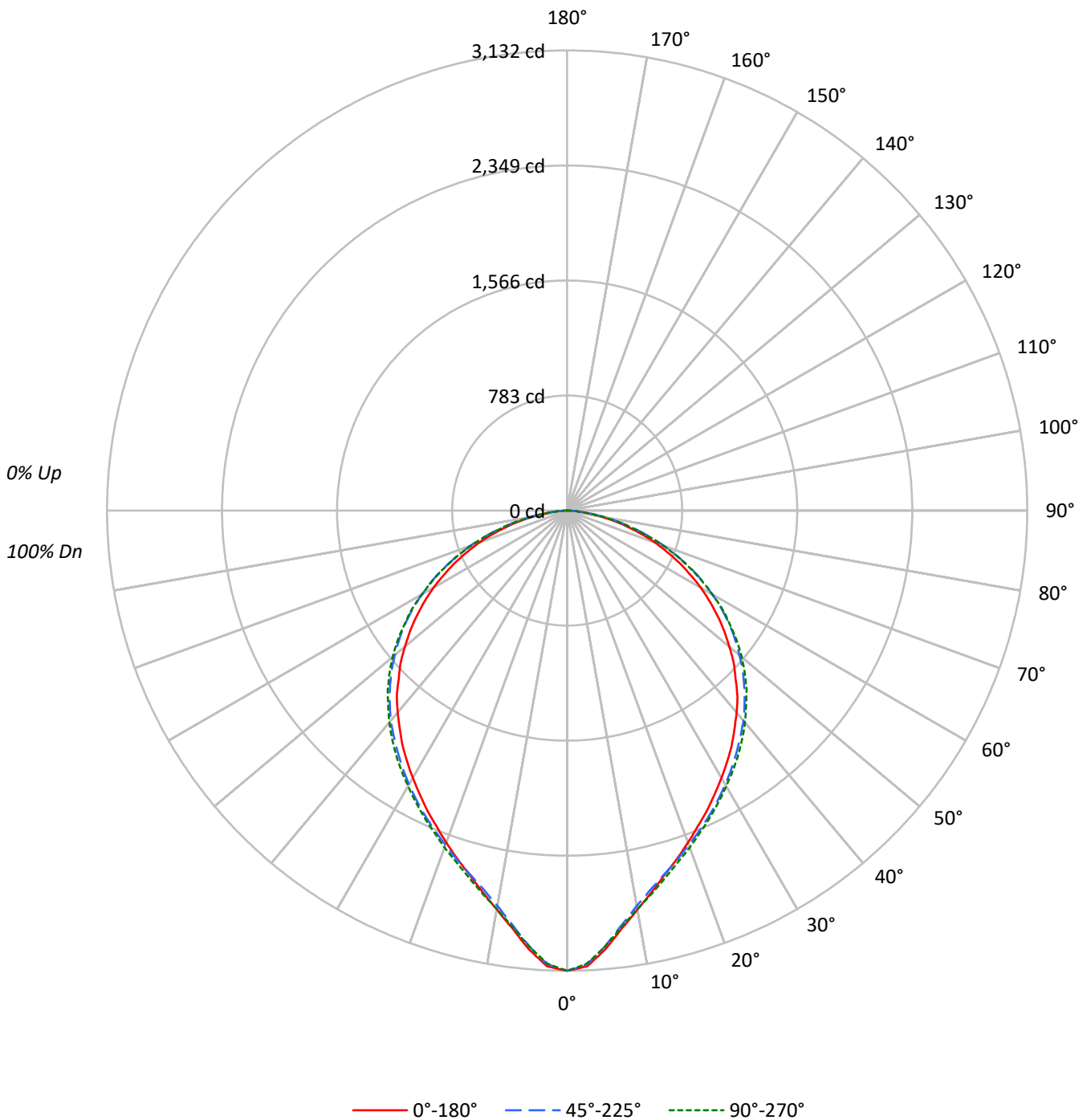
Lumens per Lamp: N/A
Luminaire Lumens: 7275.5 lumens
Efficiency: N/A
Efficacy: 87.4 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 83.2
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°	8429	8429	8429
5°	8093	8036	8036
10°	7532	7464	7521
15°	7147	7134	7204
20°	6885	6935	6988
25°	6688	6797	6837
30°	6527	6688	6729
35°	6415	6603	6669
40°	6302	6557	6612
45°	6172	6493	6570
50°	6036	6412	6497
55°	5868	6319	6345
60°	5657	6146	6133
65°	5362	5910	5870
70°	5006	5511	5444
75°	4419	4882	4834
80°	3591	3978	3784
85°	2489	2538	2439



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.8	3.8
10°-20°	725.0	10.0
20°-30°	1054.2	14.5
30°-40°	1254.5	17.2
40°-50°	1302.6	17.9
50°-60°	1180.1	16.2
60°-70°	890.5	12.2
70°-80°	485.2	6.7
80°-90°	106.6	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°	2056.0	28.3
0°-40°	3310.5	45.5
0°-60°	5793.2	79.6
0°-90°	7275.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7275.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3132	3132	3132	3132	3132	
5°	2996	2989	2975	2973	2975	278
15°	2566	2559	2561	2578	2586	724
25°	2252	2271	2289	2308	2303	1038
35°	1953	1976	2010	2040	2030	1221
45°	1622	1651	1706	1725	1726	1254
55°	1251	1280	1347	1356	1352	1117
65°	842	866	928	927	922	833
75°	425	442	470	473	465	453
85°	81	81	82	81	79	102
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3132.2	3132.2	3132.2	3132.2	3132.2
2.5°	3104.8	3101.7	3091.5	3087.6	3086.8
5°	2996.0	2989.0	2974.9	2973.3	2974.9
7.5°	2866.1	2858.3	2844.2	2849.7	2856.7
10°	2756.5	2737.0	2731.5	2739.3	2752.6
12.5°	2658.7	2643.0	2638.3	2658.7	2668.1
15°	2565.5	2559.3	2560.9	2578.1	2585.9
17.5°	2485.0	2481.0	2491.2	2504.5	2508.4
20°	2404.3	2412.2	2421.6	2435.7	2440.3
22.5°	2325.3	2340.1	2355.8	2374.6	2368.3
25°	2252.5	2271.3	2289.3	2308.1	2302.6
27.5°	2175.0	2196.9	2222.0	2242.3	2234.5
30°	2100.6	2128.0	2152.3	2177.3	2165.6
32.5°	2027.1	2052.9	2081.9	2112.4	2099.1
35°	1952.7	1976.2	2009.9	2040.4	2030.2
37.5°	1870.6	1899.5	1937.8	1964.4	1957.5
40°	1793.9	1820.5	1866.7	1883.9	1882.3
42.5°	1716.4	1738.3	1786.8	1806.4	1803.2
45°	1621.7	1650.6	1706.2	1725.0	1726.5
47.5°	1537.9	1562.2	1621.7	1636.5	1639.7
50°	1441.7	1472.2	1531.7	1549.6	1552.0
52.5°	1346.9	1379.8	1440.9	1453.4	1455.8
55°	1250.7	1280.4	1346.9	1356.4	1352.5
57.5°	1149.7	1185.7	1246.8	1251.5	1255.4
60°	1051.1	1082.4	1141.9	1148.1	1139.6
62.5°	943.9	976.0	1037.0	1038.6	1031.5
65°	842.1	866.4	928.2	926.7	921.9
67.5°	735.7	765.4	810.8	812.4	808.5
70°	636.3	656.6	700.5	701.3	691.9
72.5°	529.1	551.0	586.2	581.5	579.2
75°	425.0	442.2	469.6	472.8	464.9
77.5°	329.5	342.0	362.4	360.1	351.4
80°	231.7	241.8	256.7	253.6	244.2
82.5°	147.9	154.2	163.6	159.7	155.7
85°	80.6	81.4	82.2	81.4	79.0
87.5°	29.7	30.5	30.5	29.7	27.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)