



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: P489385

Luminaire Tested: **CLM-24-2-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: P489385
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-27-120-EDD
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

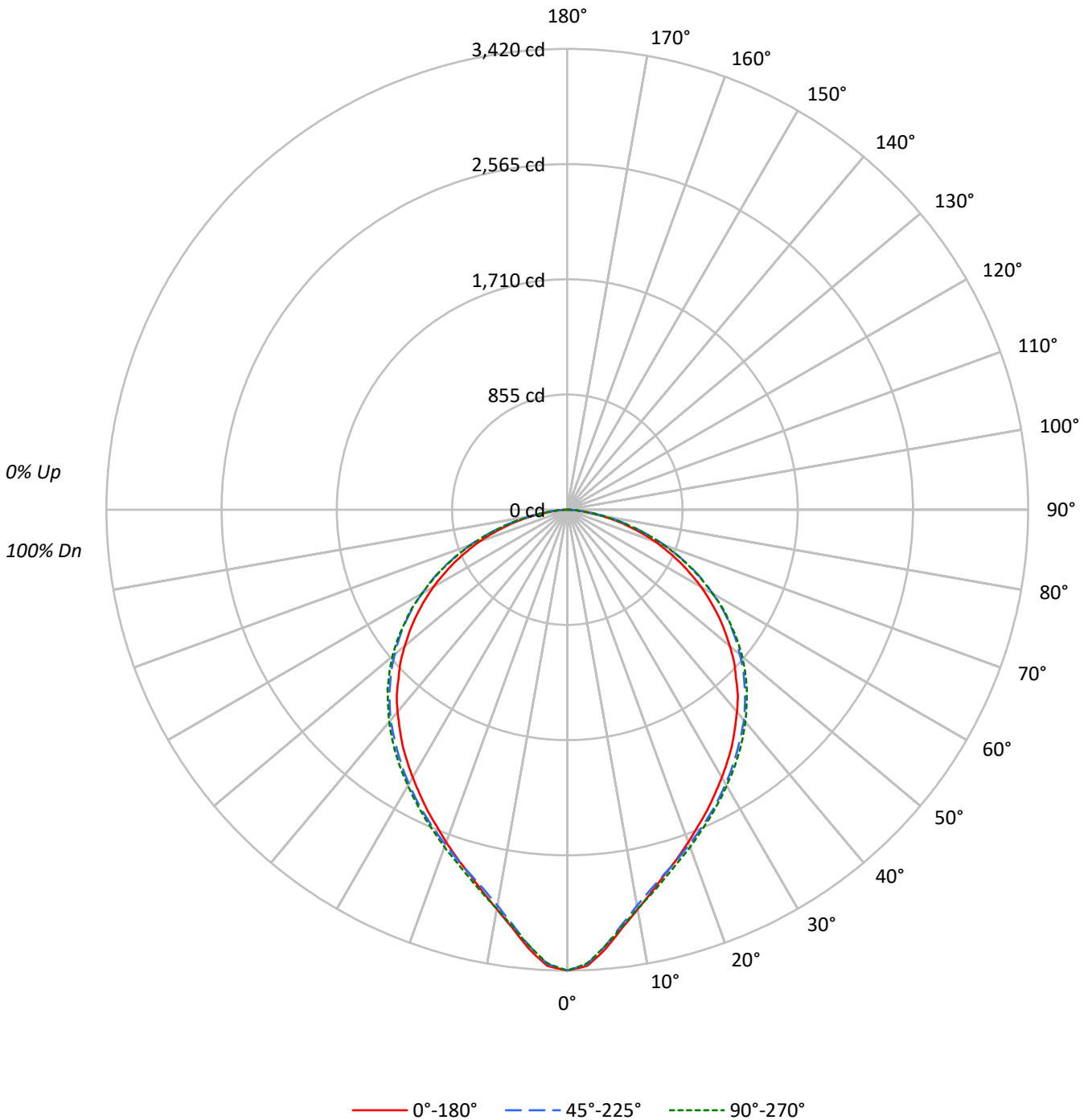
Lumens per Lamp: N/A
Luminaire Lumens: 7943.3 lumens
Efficiency: N/A
Efficacy: 95.5 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	9202	9202	9202
5°	8836	8773	8773
10°	8223	8149	8212
15°	7803	7789	7865
20°	7517	7571	7630
25°	7302	7421	7464
30°	7126	7302	7347
35°	7004	7209	7282
40°	6880	7159	7219
45°	6738	7089	7174
50°	6589	7001	7094
55°	6406	6899	6928
60°	6176	6710	6696
65°	5854	6453	6409
70°	5466	6017	5943
75°	4824	5331	5278
80°	3919	4344	4131
85°	2717	2770	2665

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.2	3.8
10°-20°	791.5	10.0
20°-30°	1151.0	14.5
30°-40°	1369.7	17.2
40°-50°	1422.2	17.9
50°-60°	1288.4	16.2
60°-70°	972.2	12.2
70°-80°	529.7	6.7
80°-90°	116.4	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
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0°-30°	2244.7	28.3
0°-40°	3614.3	45.5
0°-60°	6324.9	79.6
0°-90°	7943.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7943.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3420	3420	3420	3420	3420	
5°	3271	3263	3248	3246	3248	304
15°	2801	2794	2796	2815	2823	791
25°	2459	2480	2499	2520	2514	1133
35°	2132	2158	2194	2228	2217	1333
45°	1770	1802	1863	1883	1885	1369
55°	1366	1398	1471	1481	1477	1219
65°	919	946	1013	1012	1007	909
75°	464	483	513	516	508	494
85°	88	89	90	89	86	111
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	<i>3419.7</i>	<i>3419.7</i>	<i>3419.7</i>	<i>3419.7</i>	<i>3419.7</i>
2.5°	<i>3389.8</i>	3386.4	3375.3	3371.0	3370.1
5°	<i>3271.0</i>	3263.3	3247.9	3246.3	3247.9
7.5°	<i>3129.2</i>	3120.6	3105.3	3111.2	3118.9
10°	<i>3009.5</i>	2988.2	2982.2	2990.7	3005.3
12.5°	<i>2902.7</i>	2885.6	2880.5	2902.7	2913.0
15°	<i>2801.0</i>	2794.2	2795.9	2814.7	2823.2
17.5°	<i>2713.1</i>	2708.8	2719.9	2734.4	2738.7
20°	<i>2625.0</i>	2633.6	2643.8	2659.2	2664.3
22.5°	<i>2538.7</i>	2554.9	2572.1	2592.6	2585.7
25°	<i>2459.3</i>	2479.8	2499.4	2519.9	2514.0
27.5°	<i>2374.6</i>	2398.5	2425.9	2448.2	2439.6
30°	<i>2293.4</i>	2323.4	2349.9	2377.2	2364.4
32.5°	<i>2213.2</i>	2241.4	2273.0	2306.3	2291.8
35°	<i>2132.0</i>	2157.6	2194.4	2227.7	2216.6
37.5°	<i>2042.3</i>	2073.9	2115.7	2144.8	2137.1
40°	<i>1958.5</i>	1987.6	2038.0	2056.8	2055.1
42.5°	<i>1873.9</i>	1897.9	1950.8	1972.2	1968.8
45°	<i>1770.5</i>	1802.1	1862.8	1883.3	1885.0
47.5°	<i>1679.1</i>	1705.6	1770.5	1786.7	1790.2
50°	<i>1574.0</i>	1607.3	1672.3	1691.9	1694.5
52.5°	<i>1470.6</i>	1506.4	1573.1	1586.8	1589.4
55°	<i>1365.5</i>	1397.9	1470.6	1480.9	1476.6
57.5°	<i>1255.3</i>	1294.6	1361.2	1366.3	1370.6
60°	<i>1147.6</i>	1181.8	1246.7	1253.5	1244.2
62.5°	<i>1030.5</i>	1065.6	1132.2	1133.9	1126.2
65°	<i>919.4</i>	945.9	1013.4	1011.7	1006.6
67.5°	<i>803.2</i>	835.7	885.3	886.9	882.7
70°	<i>694.7</i>	716.9	764.8	765.6	755.4
72.5°	<i>577.7</i>	601.6	640.0	634.9	632.4
75°	<i>464.0</i>	482.8	512.7	516.1	507.6
77.5°	<i>359.8</i>	373.4	395.6	393.1	383.7
80°	<i>252.9</i>	264.0	280.3	276.9	266.6
82.5°	<i>161.5</i>	168.4	178.6	174.3	170.0
85°	<i>88.0</i>	88.8	89.7	88.8	86.3
87.5°	<i>32.5</i>	33.3	33.3	32.5	29.9
90°	<i>0.0</i>	0.0	0.0	0.0	0.0

(END OF REPORT)