

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: P489290

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-3HI-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: P489290
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-LD4-3HI-30-120-EDD-90
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

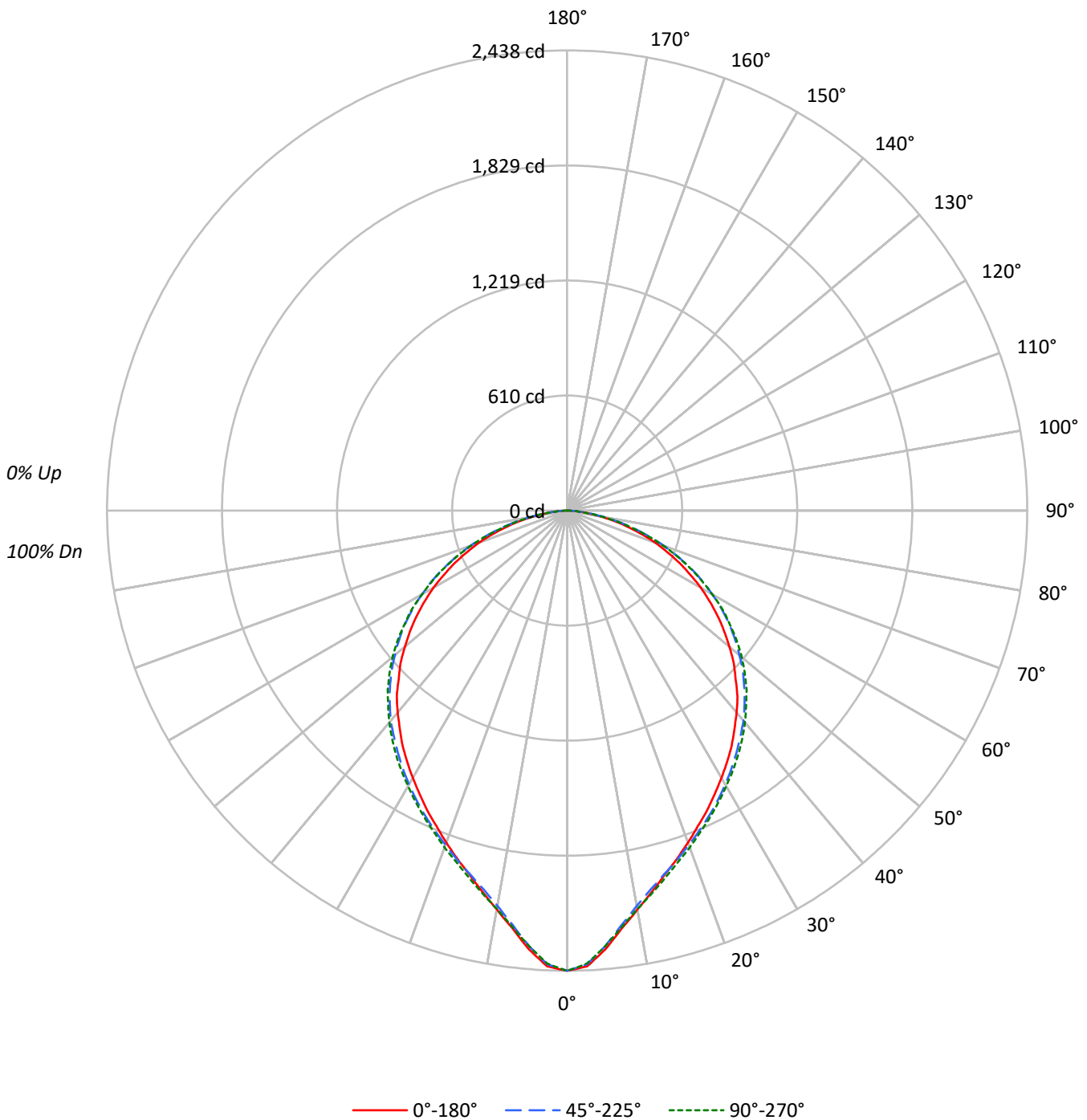
Lumens per Lamp: N/A
Luminaire Lumens: 5663.1 lumens
Efficiency: N/A
Efficacy: 87.4 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 64.8
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

TEST NUMBER: P489290

CATALOG NUMBER: CLM-24-2-INS-P12125-LD4-3HI-30-120-EDD-90

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°	6561	6561	6561
5°	6300	6255	6255
10°	5863	5810	5855
15°	5563	5553	5607
20°	5359	5398	5440
25°	5206	5291	5322
30°	5081	5206	5238
35°	4993	5140	5191
40°	4905	5104	5147
45°	4804	5054	5114
50°	4698	4991	5058
55°	4567	4919	4939
60°	4403	4783	4774
65°	4174	4600	4569
70°	3897	4290	4238
75°	3439	3800	3763
80°	2794	3096	2944
85°	1939	1976	1899



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.4	3.8
10°-20°	564.3	10.0
20°-30°	820.6	14.5
30°-40°	976.5	17.2
40°-50°	1013.9	17.9
50°-60°	918.6	16.2
60°-70°	693.1	12.2
70°-80°	377.7	6.7
80°-90°	83.0	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°	1600.3	28.3
0°-40°	2576.8	45.5
0°-60°	4509.3	79.6
0°-90°	5663.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5663.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2438	2438	2438	2438	2438	
5°	2332	2327	2316	2314	2316	216
15°	1997	1992	1993	2007	2013	564
25°	1753	1768	1782	1797	1792	808
35°	1520	1538	1564	1588	1580	950
45°	1262	1285	1328	1343	1344	976
55°	974	997	1048	1056	1053	869
65°	656	674	722	721	718	648
75°	331	344	366	368	362	352
85°	63	63	64	63	62	79
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2438.1	2438.1	2438.1	2438.1	2438.1
2.5°	2416.7	2414.3	2406.4	2403.3	2402.7
5°	2332.1	2326.6	2315.6	2314.4	2315.6
7.5°	2230.9	2224.8	2213.9	2218.1	2223.6
10°	2145.6	2130.4	2126.1	2132.2	2142.6
12.5°	2069.5	2057.3	2053.6	2069.5	2076.8
15°	1997.0	1992.1	1993.3	2006.7	2012.8
17.5°	1934.2	1931.2	1939.1	1949.5	1952.5
20°	1871.5	1877.6	1884.9	1895.9	1899.5
22.5°	1810.0	1821.5	1833.7	1848.3	1843.5
25°	1753.3	1767.9	1781.9	1796.6	1792.3
27.5°	1693.0	1710.0	1729.5	1745.4	1739.3
30°	1635.1	1656.4	1675.3	1694.8	1685.7
32.5°	1577.9	1598.0	1620.5	1644.3	1633.9
35°	1520.0	1538.3	1564.5	1588.2	1580.3
37.5°	1456.0	1478.5	1508.4	1529.1	1523.6
40°	1396.3	1417.0	1453.0	1466.4	1465.1
42.5°	1336.0	1353.1	1390.8	1406.0	1403.6
45°	1262.3	1284.8	1328.1	1342.7	1343.9
47.5°	1197.1	1216.0	1262.3	1273.8	1276.3
50°	1122.2	1145.9	1192.2	1206.2	1208.1
52.5°	1048.4	1074.0	1121.5	1131.3	1133.1
55°	973.5	996.6	1048.4	1055.8	1052.7
57.5°	894.9	923.0	970.5	974.1	977.2
60°	818.1	842.5	888.8	893.7	887.0
62.5°	734.7	759.7	807.2	808.4	802.9
65°	655.5	674.4	722.5	721.3	717.6
67.5°	572.6	595.8	631.1	632.3	629.3
70°	495.3	511.1	545.2	545.9	538.6
72.5°	411.8	428.9	456.3	452.6	450.8
75°	330.8	344.2	365.5	368.0	361.9
77.5°	256.5	266.2	282.1	280.3	273.5
80°	180.3	188.2	199.8	197.4	190.0
82.5°	115.1	120.0	127.3	124.3	121.2
85°	62.8	63.3	64.0	63.3	61.5
87.5°	23.1	23.8	23.8	23.1	21.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)