

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: P488809

Luminaire Tested: **CLM-12-4-INS-P12125-LD4-2STD-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: P488809
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-12-4-INS-P12125-LD4-2STD-27-120-EDD
Description: 1X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

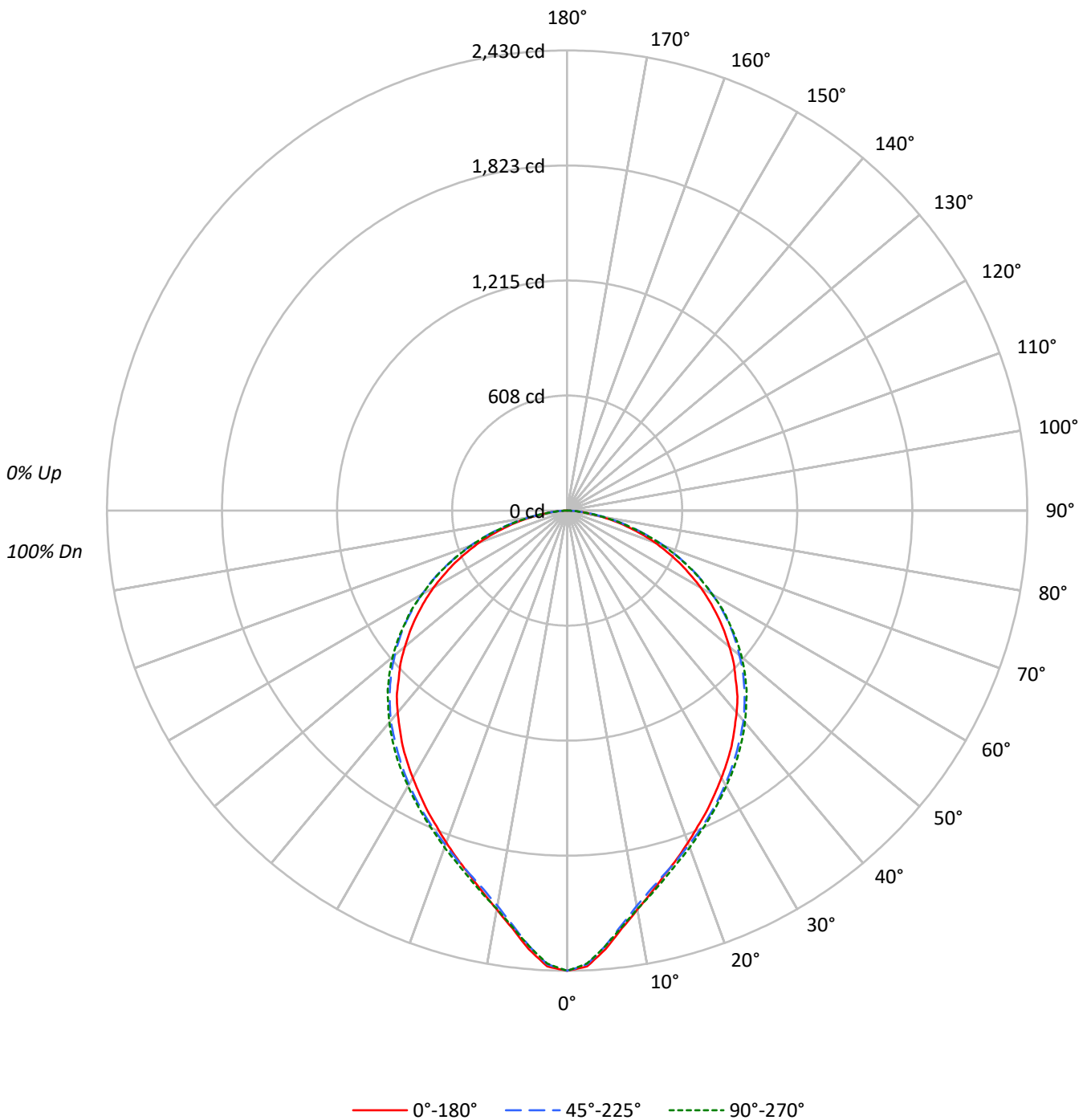
Lumens per Lamp: N/A
Luminaire Lumens: 5644.8 lumens
Efficiency: N/A
Efficacy: 84.8 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 66.6
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: P488809

CATALOG NUMBER: CLM-12-4-INS-P12125-LD4-2STD-27-120-EDD

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°	6540	6540	6540
5°	6279	6235	6235
10°	5844	5791	5836
15°	5545	5535	5589
20°	5342	5380	5422
25°	5189	5274	5304
30°	5064	5189	5221
35°	4977	5123	5175
40°	4889	5088	5130
45°	4788	5038	5098
50°	4683	4975	5041
55°	4552	4903	4923
60°	4389	4768	4758
65°	4160	4586	4555
70°	3884	4276	4223
75°	3428	3789	3750
80°	2785	3087	2935
85°	1933	1967	1893



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.7	3.8
10°-20°	562.5	10.0
20°-30°	817.9	14.5
30°-40°	973.3	17.2
40°-50°	1010.7	17.9
50°-60°	915.6	16.2
60°-70°	690.9	12.2
70°-80°	376.5	6.7
80°-90°	82.7	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°	1595.1	28.3
0°-40°	2568.5	45.5
0°-60°	4494.7	79.6
0°-90°	5644.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5644.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2430	2430	2430	2430	2430	
5°	2324	2319	2308	2307	2308	216
15°	1990	1986	1987	2000	2006	562
25°	1748	1762	1776	1791	1786	805
35°	1515	1533	1559	1583	1575	947
45°	1258	1281	1324	1338	1340	973
55°	970	993	1045	1052	1049	866
65°	653	672	720	719	715	646
75°	330	343	364	367	361	351
85°	63	63	64	63	61	79
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2430.2	2430.2	2430.2	2430.2	2430.2
2.5°	2408.9	2406.5	2398.6	2395.5	2394.9
5°	2324.5	2319.0	2308.1	2306.9	2308.1
7.5°	2223.7	2217.6	2206.7	2211.0	2216.4
10°	2138.7	2123.5	2119.2	2125.3	2135.7
12.5°	2062.8	2050.6	2047.0	2062.8	2070.1
15°	1990.5	1985.7	1986.9	2000.3	2006.3
17.5°	1928.0	1924.9	1932.8	1943.2	1946.2
20°	1865.4	1871.5	1878.8	1889.7	1893.4
22.5°	1804.1	1815.6	1827.8	1842.4	1837.5
25°	1747.6	1762.2	1776.2	1790.7	1786.5
27.5°	1687.5	1704.5	1724.0	1739.7	1733.7
30°	1629.8	1651.1	1669.9	1689.3	1680.2
32.5°	1572.8	1592.8	1615.2	1638.9	1628.6
35°	1515.1	1533.3	1559.4	1583.1	1575.2
37.5°	1451.3	1473.8	1503.5	1524.1	1518.7
40°	1391.8	1412.4	1448.3	1461.6	1460.4
42.5°	1331.7	1348.7	1386.3	1401.5	1399.1
45°	1258.2	1280.7	1323.8	1338.4	1339.6
47.5°	1193.2	1212.1	1258.2	1269.7	1272.2
50°	1118.5	1142.2	1188.4	1202.3	1204.2
52.5°	1045.0	1070.5	1117.9	1127.6	1129.5
55°	970.3	993.4	1045.0	1052.4	1049.3
57.5°	892.0	920.0	967.4	971.0	974.0
60°	815.5	839.8	886.0	890.8	884.1
62.5°	732.3	757.2	804.6	805.8	800.3
65°	653.4	672.2	720.2	719.0	715.3
67.5°	570.8	593.9	629.1	630.3	627.3
70°	493.7	509.5	543.5	544.1	536.8
72.5°	410.5	427.5	454.8	451.2	449.4
75°	329.7	343.1	364.4	366.8	360.7
77.5°	255.7	265.4	281.2	279.4	272.6
80°	179.7	187.6	199.2	196.8	189.4
82.5°	114.7	119.6	126.9	123.9	120.8
85°	62.6	63.1	63.7	63.1	61.3
87.5°	23.1	23.7	23.7	23.1	21.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)