

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: P489348

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-4STD-27-120-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: P489348
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-LD4-4STD-27-120-EDD-90
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

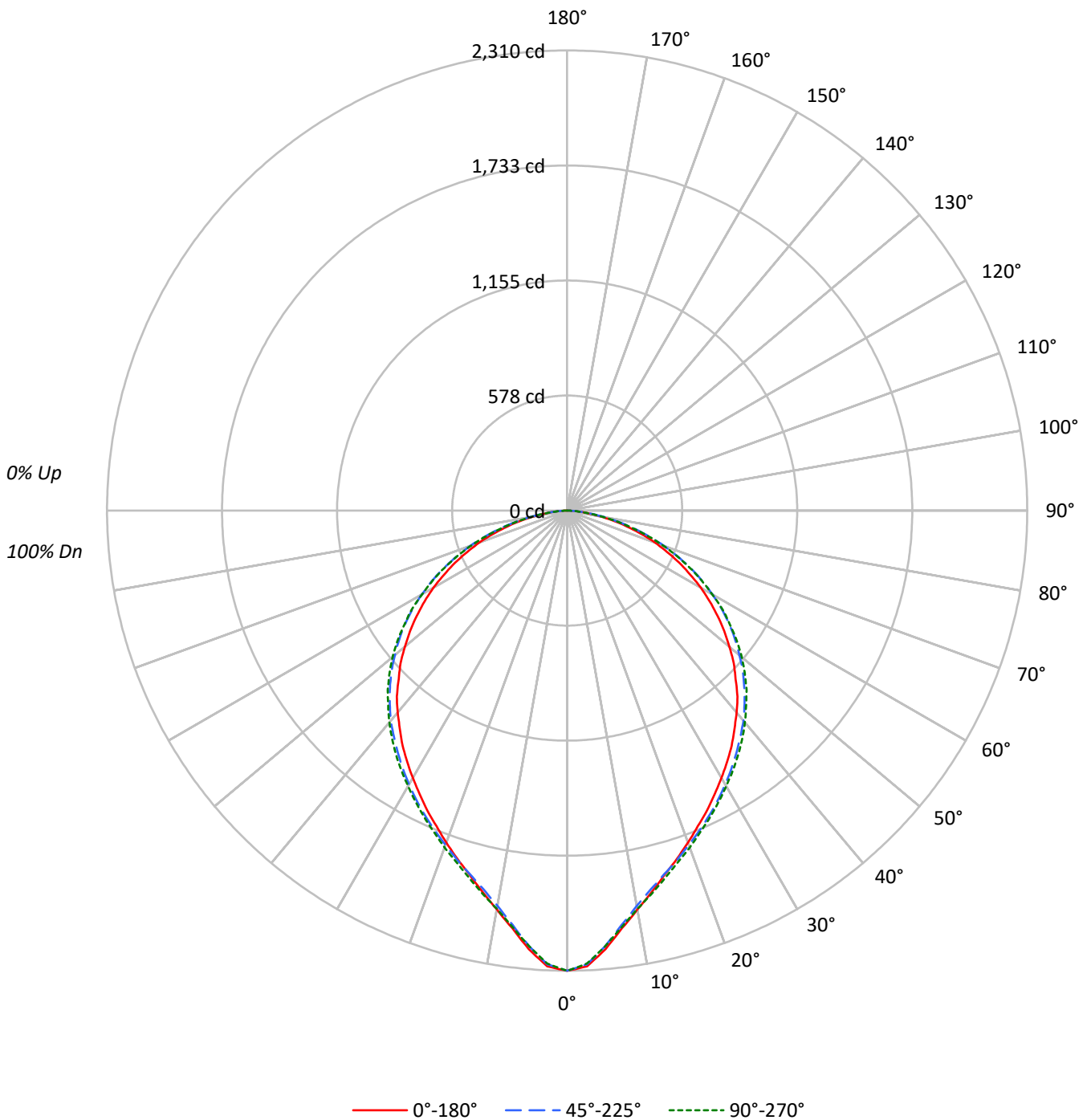
Lumens per Lamp: N/A
Luminaire Lumens: 5365.8 lumens
Efficiency: N/A
Efficacy: 80.6 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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

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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°	6216	6216	6216
5°	5969	5927	5927
10°	5555	5505	5547
15°	5271	5262	5313
20°	5078	5114	5154
25°	4933	5013	5042
30°	4814	4932	4963
35°	4731	4869	4919
40°	4647	4836	4877
45°	4552	4789	4846
50°	4451	4729	4792
55°	4328	4661	4680
60°	4172	4533	4523
65°	3955	4359	4330
70°	3692	4065	4015
75°	3258	3602	3565
80°	2647	2934	2791
85°	1837	1871	1800



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.1	3.8
10°-20°	534.7	10.0
20°-30°	777.5	14.5
30°-40°	925.2	17.2
40°-50°	960.7	17.9
50°-60°	870.4	16.2
60°-70°	656.8	12.2
70°-80°	357.8	6.7
80°-90°	78.6	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°	1516.3	28.3
0°-40°	2441.5	45.5
0°-60°	4272.6	79.6
0°-90°	5365.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5365.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2310	2310	2310	2310	2310	
5°	2210	2204	2194	2193	2194	205
15°	1892	1888	1889	1901	1907	534
25°	1661	1675	1688	1702	1698	766
35°	1440	1458	1482	1505	1497	900
45°	1196	1217	1258	1272	1273	924
55°	922	944	993	1000	998	824
65°	621	639	685	683	680	614
75°	313	326	346	349	343	334
85°	60	60	61	60	58	75
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2310.1	2310.1	2310.1	2310.1	2310.1
2.5°	2289.8	2287.5	2280.0	2277.1	2276.6
5°	2209.6	2204.4	2194.0	2192.9	2194.0
7.5°	2113.8	2108.0	2097.7	2101.7	2106.9
10°	2033.0	2018.6	2014.5	2020.3	2030.1
12.5°	1960.8	1949.3	1945.8	1960.8	1967.8
15°	1892.1	1887.5	1888.7	1901.4	1907.1
17.5°	1832.7	1829.8	1837.3	1847.1	1850.0
20°	1773.2	1779.0	1785.9	1796.3	1799.8
22.5°	1714.9	1725.9	1737.5	1751.3	1746.7
25°	1661.3	1675.1	1688.4	1702.2	1698.2
27.5°	1604.1	1620.2	1638.7	1653.8	1648.0
30°	1549.2	1569.5	1587.4	1605.8	1597.2
32.5°	1495.0	1514.1	1535.4	1557.9	1548.1
35°	1440.2	1457.5	1482.3	1504.8	1497.3
37.5°	1379.6	1400.9	1429.2	1448.8	1443.7
40°	1323.0	1342.6	1376.7	1389.4	1388.2
42.5°	1265.8	1282.0	1317.8	1332.2	1329.9
45°	1196.0	1217.4	1258.3	1272.2	1273.4
47.5°	1134.3	1152.2	1196.0	1207.0	1209.3
50°	1063.3	1085.8	1129.6	1142.9	1144.7
52.5°	993.4	1017.6	1062.7	1071.9	1073.7
55°	922.4	944.3	993.4	1000.4	997.5
57.5°	848.0	874.5	919.5	923.0	925.9
60°	775.2	798.3	842.2	846.8	840.4
62.5°	696.1	719.8	764.8	766.0	760.8
65°	621.1	639.0	684.6	683.4	680.0
67.5°	542.6	564.5	598.0	599.1	596.3
70°	469.3	484.3	516.6	517.2	510.3
72.5°	390.2	406.4	432.3	428.9	427.2
75°	313.4	326.1	346.4	348.7	342.9
77.5°	243.0	252.2	267.3	265.5	259.2
80°	170.8	178.4	189.3	187.0	180.1
82.5°	109.1	113.7	120.7	117.8	114.9
85°	59.5	60.0	60.6	60.0	58.3
87.5°	21.9	22.5	22.5	21.9	20.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)