

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: P489319

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-3STD-40-120-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: P489319
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-LD4-3STD-40-120-EDD
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

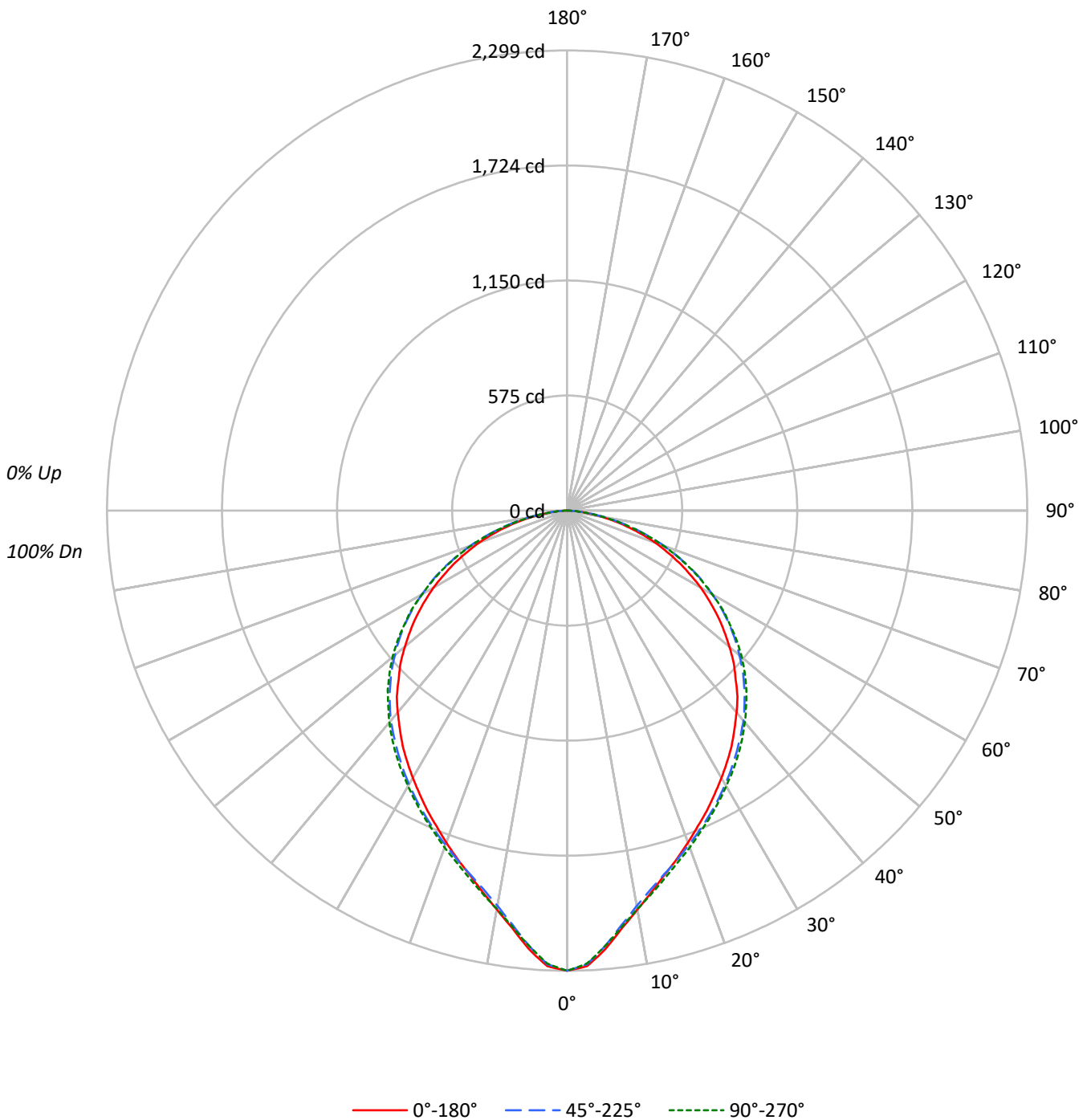
Lumens per Lamp: N/A
Luminaire Lumens: 5339.6 lumens
Efficiency: N/A
Efficacy: 106.8 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 50
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°	6186	6186	6186
5°	5940	5898	5898
10°	5528	5478	5520
15°	5246	5236	5287
20°	5053	5089	5129
25°	4909	4989	5018
30°	4790	4908	4939
35°	4708	4846	4895
40°	4625	4813	4853
45°	4529	4765	4822
50°	4430	4706	4769
55°	4306	4638	4657
60°	4152	4511	4501
65°	3935	4337	4308
70°	3674	4045	3995
75°	3243	3584	3548
80°	2634	2920	2777
85°	1828	1862	1791



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.1	3.8
10°-20°	532.1	10.0
20°-30°	773.7	14.5
30°-40°	920.7	17.2
40°-50°	956.0	17.9
50°-60°	866.1	16.2
60°-70°	653.5	12.2
70°-80°	356.1	6.7
80°-90°	78.2	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°	1508.9	28.3
0°-40°	2429.6	45.5
0°-60°	4251.7	79.6
0°-90°	5339.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5339.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2299	2299	2299	2299	2299	
5°	2199	2194	2183	2182	2183	204
15°	1883	1878	1880	1892	1898	531
25°	1653	1667	1680	1694	1690	762
35°	1433	1450	1475	1498	1490	896
45°	1190	1211	1252	1266	1267	920
55°	918	940	988	996	993	820
65°	618	636	681	680	677	611
75°	312	324	345	347	341	332
85°	59	60	60	60	58	75
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2298.8	2298.8	2298.8	2298.8	2298.8
2.5°	2278.7	2276.4	2268.9	2266.0	2265.4
5°	2198.8	2193.7	2183.3	2182.2	2183.3
7.5°	2103.5	2097.7	2087.4	2091.4	2096.6
10°	2023.1	2008.7	2004.7	2010.4	2020.2
12.5°	1951.2	1939.8	1936.3	1951.2	1958.2
15°	1882.9	1878.3	1879.5	1892.1	1897.8
17.5°	1823.8	1820.9	1828.3	1838.1	1841.0
20°	1764.6	1770.3	1777.2	1787.6	1791.0
22.5°	1706.6	1717.5	1729.0	1742.8	1738.2
25°	1653.2	1666.9	1680.2	1693.9	1689.9
27.5°	1596.3	1612.3	1630.7	1645.7	1639.9
30°	1541.7	1561.8	1579.6	1598.0	1589.4
32.5°	1487.7	1506.7	1527.9	1550.3	1540.6
35°	1433.1	1450.4	1475.1	1497.5	1490.0
37.5°	1372.8	1394.1	1422.2	1441.7	1436.6
40°	1316.5	1336.1	1370.0	1382.6	1381.4
42.5°	1259.7	1275.8	1311.4	1325.7	1323.4
45°	1190.2	1211.4	1252.2	1266.0	1267.1
47.5°	1128.7	1146.5	1190.2	1201.1	1203.4
50°	1058.1	1080.5	1124.1	1137.3	1139.1
52.5°	988.5	1012.7	1057.5	1066.7	1068.4
55°	917.9	939.7	988.5	995.5	992.6
57.5°	843.8	870.2	915.1	918.5	921.3
60°	771.4	794.4	838.1	842.6	836.3
62.5°	692.7	716.3	761.1	762.2	757.0
65°	618.0	635.9	681.2	680.1	676.6
67.5°	539.9	561.7	595.1	596.2	593.4
70°	467.0	481.9	514.1	514.7	507.8
72.5°	388.3	404.4	430.2	426.8	425.1
75°	311.9	324.5	344.7	347.0	341.2
77.5°	241.8	251.0	266.0	264.2	257.9
80°	170.0	177.5	188.4	186.1	179.2
82.5°	108.5	113.2	120.1	117.2	114.3
85°	59.2	59.7	60.3	59.7	58.0
87.5°	21.8	22.4	22.4	21.8	20.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)