

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: P489376

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-5LO-35-120-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: P489376
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-LD4-5LO-35-120-EDD-90
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

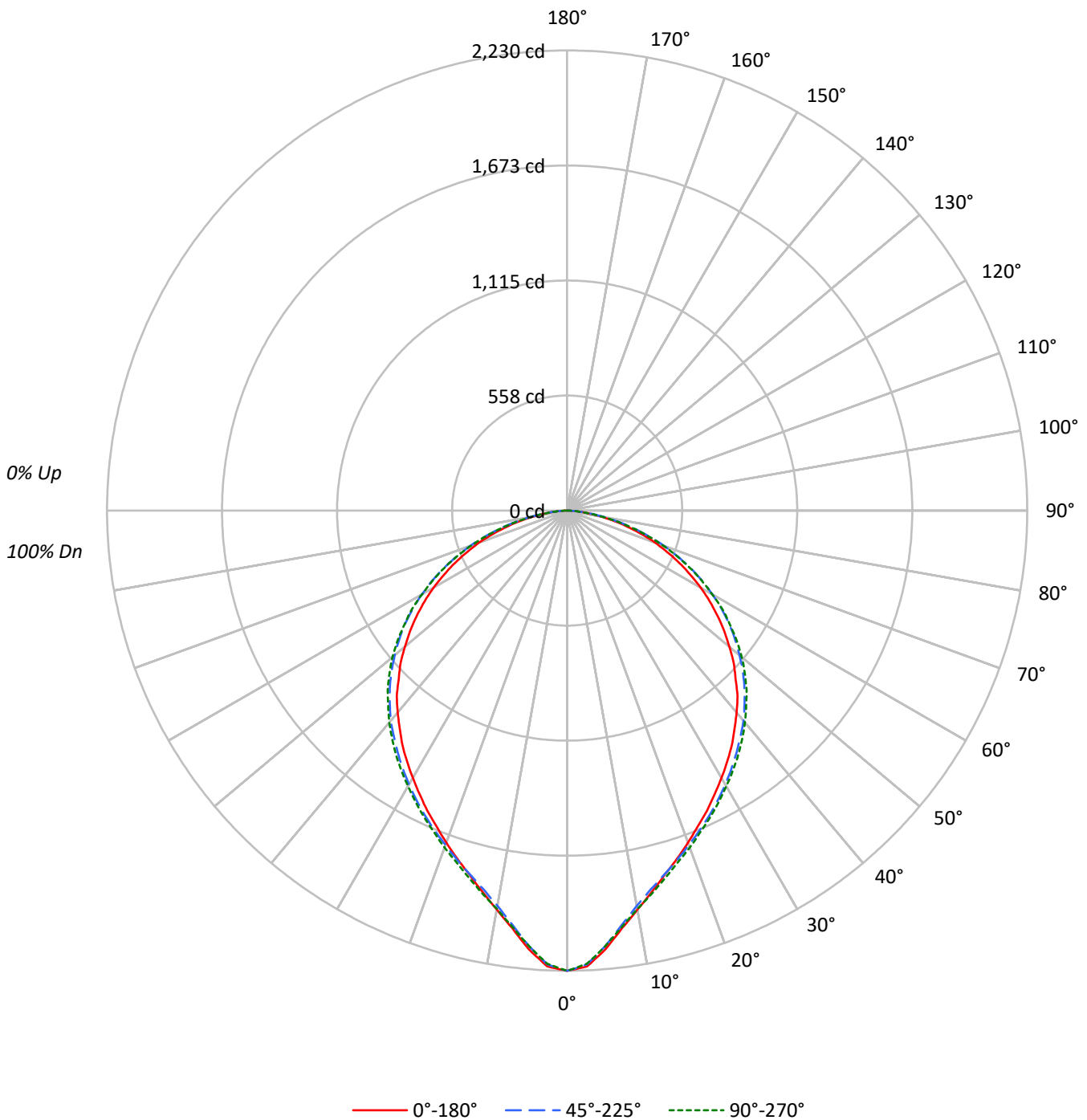
Lumens per Lamp: N/A
Luminaire Lumens: 5180.8 lumens
Efficiency: N/A
Efficacy: 88.6 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 58.5
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°	6002	6002	6002
5°	5763	5722	5722
10°	5364	5315	5356
15°	5090	5080	5130
20°	4903	4938	4976
25°	4763	4840	4869
30°	4648	4762	4792
35°	4568	4702	4749
40°	4487	4669	4709
45°	4395	4624	4679
50°	4298	4566	4627
55°	4178	4500	4518
60°	4028	4376	4367
65°	3819	4209	4180
70°	3565	3925	3877
75°	3146	3477	3441
80°	2557	2833	2695
85°	1772	1806	1738



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.1	3.8
10°-20°	516.2	10.0
20°-30°	750.7	14.5
30°-40°	893.3	17.2
40°-50°	927.6	17.9
50°-60°	840.3	16.2
60°-70°	634.1	12.2
70°-80°	345.5	6.7
80°-90°	75.9	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°	1464.0	28.3
0°-40°	2357.3	45.5
0°-60°	4125.3	79.6
0°-90°	5180.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5180.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2230	2230	2230	2230	2230	
5°	2133	2128	2118	2117	2118	198
15°	1827	1822	1824	1836	1841	516
25°	1604	1617	1630	1644	1640	739
35°	1390	1407	1431	1453	1446	869
45°	1155	1175	1215	1228	1230	893
55°	891	912	959	966	963	795
65°	600	617	661	660	656	593
75°	303	315	334	337	331	322
85°	57	58	58	58	56	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2230.4	2230.4	2230.4	2230.4	2230.4
2.5°	2210.9	2208.7	2201.4	2198.6	2198.1
5°	2133.4	2128.4	2118.4	2117.3	2118.4
7.5°	2040.9	2035.3	2025.3	2029.2	2034.2
10°	1962.9	1949.0	1945.0	1950.6	1960.1
12.5°	1893.2	1882.1	1878.7	1893.2	1899.9
15°	1826.9	1822.4	1823.6	1835.8	1841.4
17.5°	1769.5	1766.7	1774.0	1783.4	1786.2
20°	1712.1	1717.7	1724.4	1734.4	1737.7
22.5°	1655.8	1666.4	1677.6	1690.9	1686.5
25°	1604.0	1617.3	1630.2	1643.5	1639.7
27.5°	1548.8	1564.4	1582.2	1596.7	1591.2
30°	1495.8	1515.4	1532.6	1550.5	1542.1
32.5°	1443.5	1461.9	1482.5	1504.2	1494.7
35°	1390.5	1407.2	1431.2	1453.0	1445.7
37.5°	1332.0	1352.6	1379.9	1398.9	1393.9
40°	1277.4	1296.3	1329.2	1341.5	1340.4
42.5°	1222.2	1237.8	1272.4	1286.3	1284.1
45°	1154.8	1175.4	1215.0	1228.4	1229.5
47.5°	1095.1	1112.4	1154.8	1165.4	1167.6
50°	1026.6	1048.3	1090.7	1103.5	1105.2
52.5°	959.1	982.5	1026.0	1034.9	1036.6
55°	890.6	911.8	959.1	965.9	963.1
57.5°	818.7	844.3	887.8	891.2	893.9
60°	748.5	770.8	813.1	817.6	811.5
62.5°	672.1	695.0	738.5	739.6	734.5
65°	599.7	617.0	661.0	659.9	656.5
67.5°	523.9	545.0	577.4	578.5	575.7
70°	453.1	467.6	498.8	499.4	492.7
72.5°	376.8	392.4	417.4	414.1	412.4
75°	302.6	314.9	334.4	336.6	331.0
77.5°	234.6	243.5	258.0	256.4	250.2
80°	165.0	172.2	182.8	180.6	173.9
82.5°	105.3	109.8	116.5	113.7	110.9
85°	57.4	57.9	58.5	57.9	56.3
87.5°	21.2	21.7	21.7	21.2	19.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)