

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: P489378

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-5LO-40-120-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: P489378
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-40-120-EDD-90
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

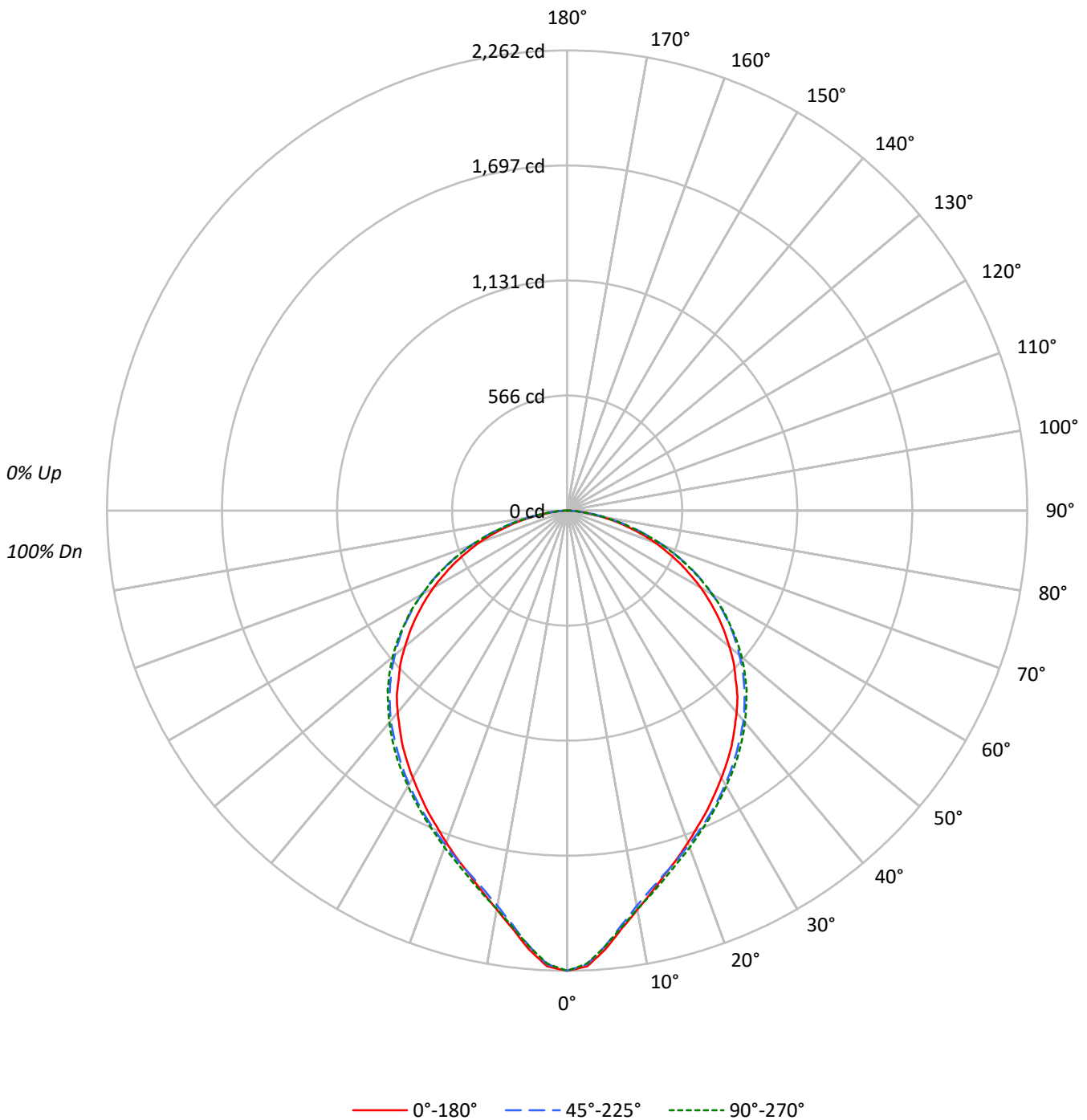
Lumens per Lamp: N/A
Luminaire Lumens: 5254.4 lumens
Efficiency: N/A
Efficacy: 89.8 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	6087	6087	6087
5°	5845	5804	5804
10°	5440	5390	5432
15°	5162	5153	5203
20°	4972	5008	5047
25°	4830	4909	4938
30°	4714	4830	4860
35°	4633	4768	4817
40°	4551	4736	4775
45°	4457	4689	4745
50°	4359	4631	4693
55°	4237	4564	4582
60°	4085	4439	4429
65°	3873	4269	4239
70°	3615	3980	3932
75°	3191	3527	3491
80°	2593	2873	2732
85°	1797	1831	1763



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.9	3.8
10°-20°	523.6	10.0
20°-30°	761.4	14.5
30°-40°	906.0	17.2
40°-50°	940.8	17.9
50°-60°	852.3	16.2
60°-70°	643.1	12.2
70°-80°	350.4	6.7
80°-90°	77.0	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°	1484.8	28.3
0°-40°	2390.8	45.5
0°-60°	4183.8	79.6
0°-90°	5254.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5254.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2262	2262	2262	2262	2262	
5°	2164	2159	2148	2147	2148	201
15°	1853	1848	1850	1862	1868	523
25°	1627	1640	1653	1667	1663	750
35°	1410	1427	1452	1474	1466	882
45°	1171	1192	1232	1246	1247	905
55°	903	925	973	980	977	806
65°	608	626	670	669	666	601
75°	307	319	339	341	336	327
85°	58	59	59	59	57	73
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2262.1	2262.1	2262.1	2262.1	2262.1
2.5°	2242.3	2240.0	2232.7	2229.9	2229.3
5°	2163.8	2158.7	2148.5	2147.4	2148.5
7.5°	2069.9	2064.2	2054.1	2058.0	2063.1
10°	1990.8	1976.7	1972.7	1978.3	1987.9
12.5°	1920.1	1908.8	1905.4	1920.1	1926.9
15°	1852.8	1848.3	1849.5	1861.9	1867.5
17.5°	1794.7	1791.8	1799.2	1808.8	1811.6
20°	1736.4	1742.1	1748.9	1759.1	1762.4
22.5°	1679.3	1690.1	1701.4	1714.9	1710.4
25°	1626.8	1640.3	1653.3	1666.9	1663.0
27.5°	1570.8	1586.6	1604.7	1619.4	1613.8
30°	1517.1	1536.9	1554.4	1572.5	1564.0
32.5°	1464.0	1482.6	1503.5	1525.6	1516.0
35°	1410.3	1427.2	1451.5	1473.6	1466.3
37.5°	1350.9	1371.8	1399.5	1418.7	1413.7
40°	1295.5	1314.8	1348.1	1360.5	1359.4
42.5°	1239.6	1255.4	1290.4	1304.6	1302.3
45°	1171.2	1192.1	1232.2	1245.8	1246.9
47.5°	1110.7	1128.2	1171.2	1181.9	1184.2
50°	1041.2	1063.2	1106.2	1119.2	1120.9
52.5°	972.8	996.5	1040.6	1049.6	1051.4
55°	903.2	924.7	972.8	979.6	976.7
57.5°	830.3	856.3	900.4	903.8	906.6
60°	759.1	781.7	824.7	829.2	823.0
62.5°	681.7	704.9	749.0	750.1	745.0
65°	608.2	625.7	670.4	669.2	665.8
67.5°	531.3	552.8	585.6	586.7	583.9
70°	459.5	474.2	505.9	506.5	499.7
72.5°	382.1	397.9	423.3	420.0	418.3
75°	306.9	319.4	339.2	341.4	335.8
77.5°	238.0	247.0	261.7	260.0	253.8
80°	167.3	174.7	185.4	183.2	176.3
82.5°	106.8	111.4	118.1	115.3	112.5
85°	58.2	58.8	59.3	58.8	57.1
87.5°	21.5	22.1	22.1	21.5	19.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)