

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: P489380

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-5LO-50-120-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: P489380
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-50-120-EDD-90
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

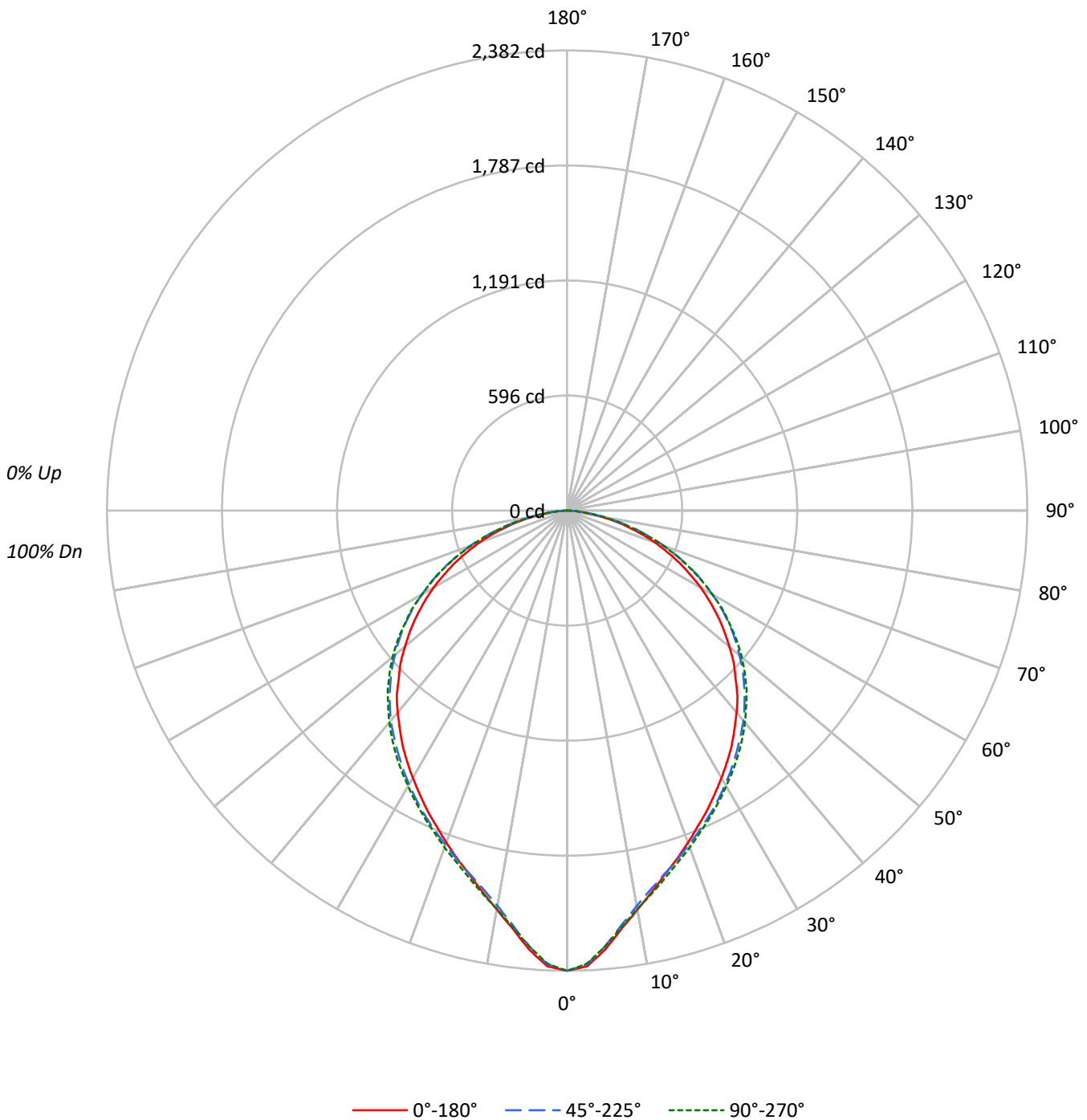
Lumens per Lamp: N/A
Luminaire Lumens: 5532.9 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P489380

CATALOG NUMBER: CLM-24-2-INS-P12125-LD4-5LO-50-120-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P489380

CATALOG NUMBER: CLM-24-2-INS-P12125-LD4-5LO-50-120-EDD-90

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°	6410	6410	6410
5°	6155	6111	6111
10°	5728	5676	5720
15°	5435	5426	5478
20°	5236	5274	5314
25°	5086	5169	5199
30°	4964	5086	5117
35°	4878	5021	5072
40°	4792	4987	5028
45°	4693	4938	4997
50°	4590	4876	4941
55°	4462	4806	4825
60°	4302	4674	4664
65°	4078	4495	4464
70°	3807	4191	4140
75°	3360	3713	3675
80°	2731	3025	2878
85°	1893	1930	1856



TEST NUMBER: P489380

CATALOG NUMBER: CLM-24-2-INS-P12125-LD4-5LO-50-120-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.5	3.8
10°-20°	551.3	10.0
20°-30°	801.7	14.5
30°-40°	954.0	17.2
40°-50°	990.6	17.9
50°-60°	897.4	16.2
60°-70°	677.2	12.2
70°-80°	369.0	6.7
80°-90°	81.1	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°	1563.5	28.3
0°-40°	2517.6	45.5
0°-60°	4405.6	79.6
0°-90°	5532.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5532.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2382	2382	2382	2382	2382	
5°	2278	2273	2262	2261	2262	211
15°	1951	1946	1948	1961	1966	551
25°	1713	1727	1741	1755	1751	789
35°	1485	1503	1528	1552	1544	928
45°	1233	1255	1298	1312	1313	953
55°	951	974	1024	1032	1028	849
65°	640	659	706	705	701	633
75°	323	336	357	360	354	344
85°	61	62	62	62	60	77
90°	0	0	0	0	0	



TEST NUMBER: P489380

CATALOG NUMBER: CLM-24-2-INS-P12125-LD4-5LO-50-120-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2382.0	2382.0	2382.0	2382.0	2382.0
2.5°	2361.2	2358.8	2351.0	2348.1	2347.4
5°	2278.4	2273.1	2262.3	2261.2	2262.3
7.5°	2179.6	2173.7	2163.0	2167.1	2172.5
10°	2096.3	2081.4	2077.2	2083.2	2093.3
12.5°	2021.9	2010.0	2006.4	2021.9	2029.1
15°	1951.0	1946.3	1947.5	1960.6	1966.5
17.5°	1889.8	1886.8	1894.5	1904.6	1907.6
20°	1828.5	1834.4	1841.6	1852.3	1855.8
22.5°	1768.4	1779.6	1791.6	1805.8	1801.1
25°	1713.0	1727.3	1741.0	1755.2	1751.1
27.5°	1654.1	1670.7	1689.8	1705.3	1699.3
30°	1597.5	1618.3	1636.8	1655.8	1646.9
32.5°	1541.6	1561.2	1583.2	1606.5	1596.3
35°	1485.0	1502.9	1528.5	1551.7	1544.0
37.5°	1422.5	1444.6	1473.7	1493.9	1488.6
40°	1364.2	1384.4	1419.6	1432.7	1431.4
42.5°	1305.3	1322.0	1358.8	1373.7	1371.3
45°	1233.3	1255.3	1297.5	1311.8	1313.0
47.5°	1169.6	1188.0	1233.3	1244.6	1246.9
50°	1096.4	1119.6	1164.8	1178.5	1180.3
52.5°	1024.3	1049.3	1095.8	1105.3	1107.1
55°	951.1	973.7	1024.3	1031.5	1028.5
57.5°	874.4	901.7	948.2	951.7	954.7
60°	799.3	823.2	868.4	873.1	866.6
62.5°	717.8	742.2	788.7	789.8	784.5
65°	640.4	658.9	705.9	704.7	701.1
67.5°	559.5	582.1	616.6	617.8	614.9
70°	483.9	499.4	532.7	533.3	526.2
72.5°	402.4	419.0	445.8	442.2	440.5
75°	323.2	336.3	357.1	359.5	353.5
77.5°	250.6	260.1	275.6	273.8	267.2
80°	176.2	183.9	195.2	192.9	185.7
82.5°	112.5	117.3	124.4	121.4	118.4
85°	61.3	61.9	62.5	61.9	60.1
87.5°	22.6	23.2	23.2	22.6	20.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)