

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: P489371

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-5LO-20-120-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: P489371  
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-20-120-EDD  
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

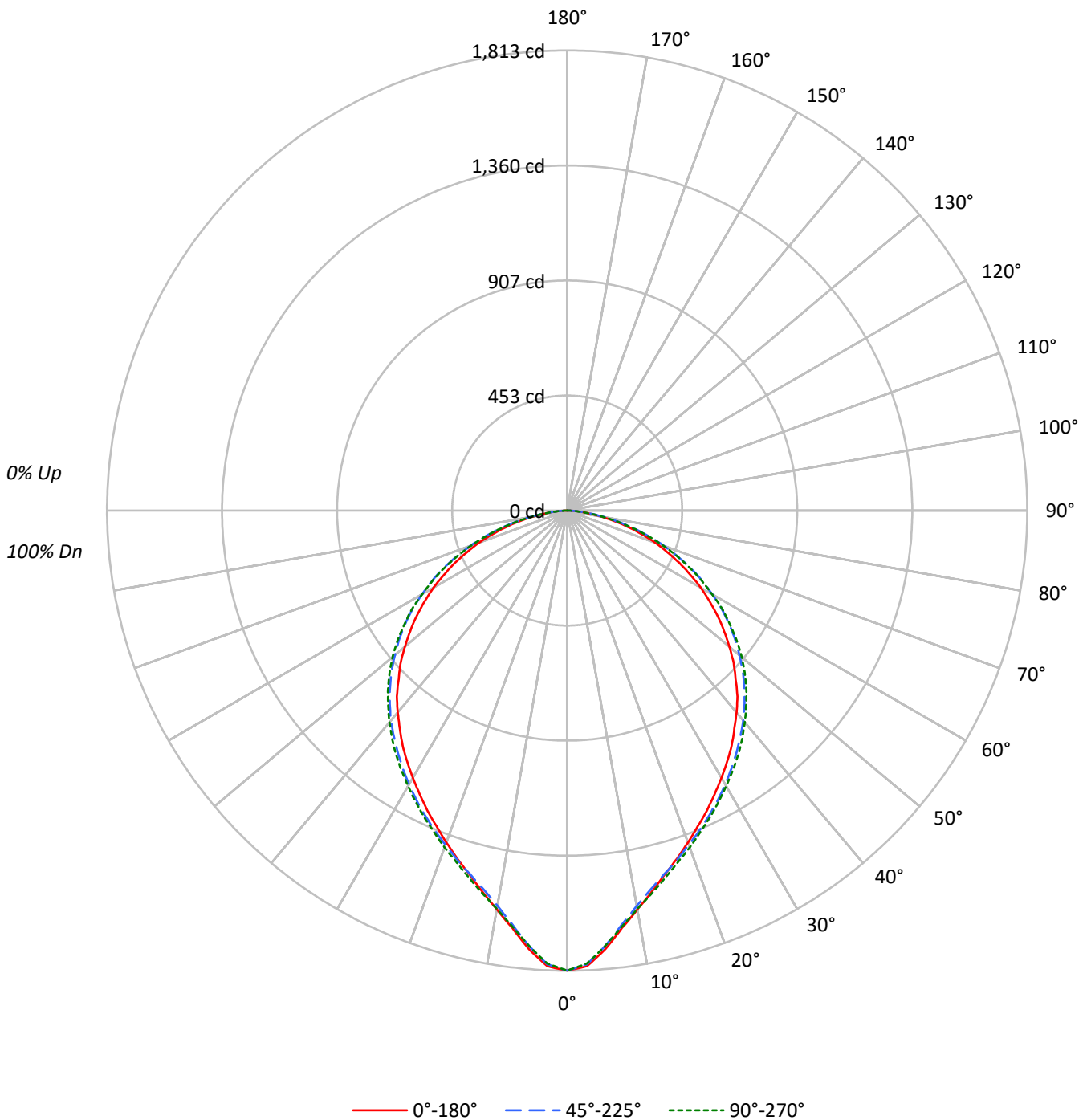
Lumens per Lamp: N/A  
Luminaire Lumens: 4210.3 lumens  
Efficiency: N/A  
Efficacy: 72.0 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

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°	4878	4878	4878
5°	4683	4650	4650
10°	4359	4319	4353
15°	4136	4129	4169
20°	3985	4013	4044
25°	3870	3934	3956
30°	3777	3870	3894
35°	3712	3821	3860
40°	3647	3795	3827
45°	3572	3758	3802
50°	3493	3711	3760
55°	3396	3657	3672
60°	3274	3556	3549
65°	3103	3420	3397
70°	2897	3190	3150
75°	2557	2826	2797
80°	2078	2303	2190
85°	1442	1467	1411



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	160.2	3.8
10°-20°	419.5	10.0
20°-30°	610.1	14.5
30°-40°	726.0	17.2
40°-50°	753.8	17.9
50°-60°	682.9	16.2
60°-70°	515.3	12.2
70°-80°	280.8	6.7
80°-90°	61.7	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°	1189.8	28.3
0°-40°	1915.7	45.5
0°-60°	3352.5	79.6
0°-90°	4210.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4210.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1813	1813	1813	1813	1813	
5°	1734	1730	1722	1721	1722	161
15°	1485	1481	1482	1492	1496	419
25°	1304	1314	1325	1336	1332	601
35°	1130	1144	1163	1181	1175	706
45°	938	955	987	998	999	725
55°	724	741	780	785	783	646
65°	487	501	537	536	534	482
75°	246	256	272	274	269	262
85°	47	47	48	47	46	59
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1812.6	1812.6	1812.6	1812.6	1812.6
2.5°	1796.7	1794.9	1789.0	1786.8	1786.3
5°	1733.8	1729.7	1721.5	1720.7	1721.5
7.5°	1658.6	1654.1	1645.9	1649.1	1653.2
10°	1595.2	1583.9	1580.7	1585.2	1592.9
12.5°	1538.6	1529.5	1526.8	1538.6	1544.0
15°	1484.7	1481.0	1482.0	1491.9	1496.4
17.5°	1438.0	1435.8	1441.7	1449.4	1451.6
20°	1391.4	1395.9	1401.3	1409.5	1412.2
22.5°	1345.6	1354.2	1363.3	1374.2	1370.5
25°	1303.5	1314.4	1324.8	1335.7	1332.5
27.5°	1258.7	1271.3	1285.8	1297.6	1293.1
30°	1215.6	1231.5	1245.5	1260.0	1253.2
32.5°	1173.1	1188.0	1204.8	1222.4	1214.7
35°	1130.0	1143.6	1163.1	1180.8	1174.9
37.5°	1082.5	1099.2	1121.4	1136.8	1132.8
40°	1038.1	1053.5	1080.2	1090.2	1089.3
42.5°	993.3	1006.0	1034.0	1045.3	1043.5
45°	938.5	955.2	987.4	998.3	999.1
47.5°	890.0	904.0	938.5	947.1	948.9
50°	834.3	852.0	886.4	896.8	898.2
52.5°	779.5	798.5	833.8	841.1	842.4
55°	723.8	741.0	779.5	784.9	782.7
57.5°	665.4	686.2	721.5	724.2	726.5
60°	608.3	626.4	660.8	664.4	659.5
62.5°	546.2	564.8	600.1	601.0	596.9
65°	487.3	501.4	537.1	536.3	533.5
67.5°	425.7	442.9	469.2	470.1	467.9
70°	368.2	380.0	405.4	405.8	400.4
72.5°	306.2	318.9	339.2	336.5	335.2
75°	245.9	255.9	271.8	273.6	269.0
77.5°	190.7	197.9	209.7	208.4	203.4
80°	134.1	139.9	148.6	146.8	141.3
82.5°	85.6	89.2	94.7	92.4	90.1
85°	46.7	47.1	47.5	47.1	45.7
87.5°	17.2	17.7	17.7	17.2	15.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)