

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: P489260

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-2HI-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: P489260  
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-LD4-2HI-50-120-EDD-90  
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

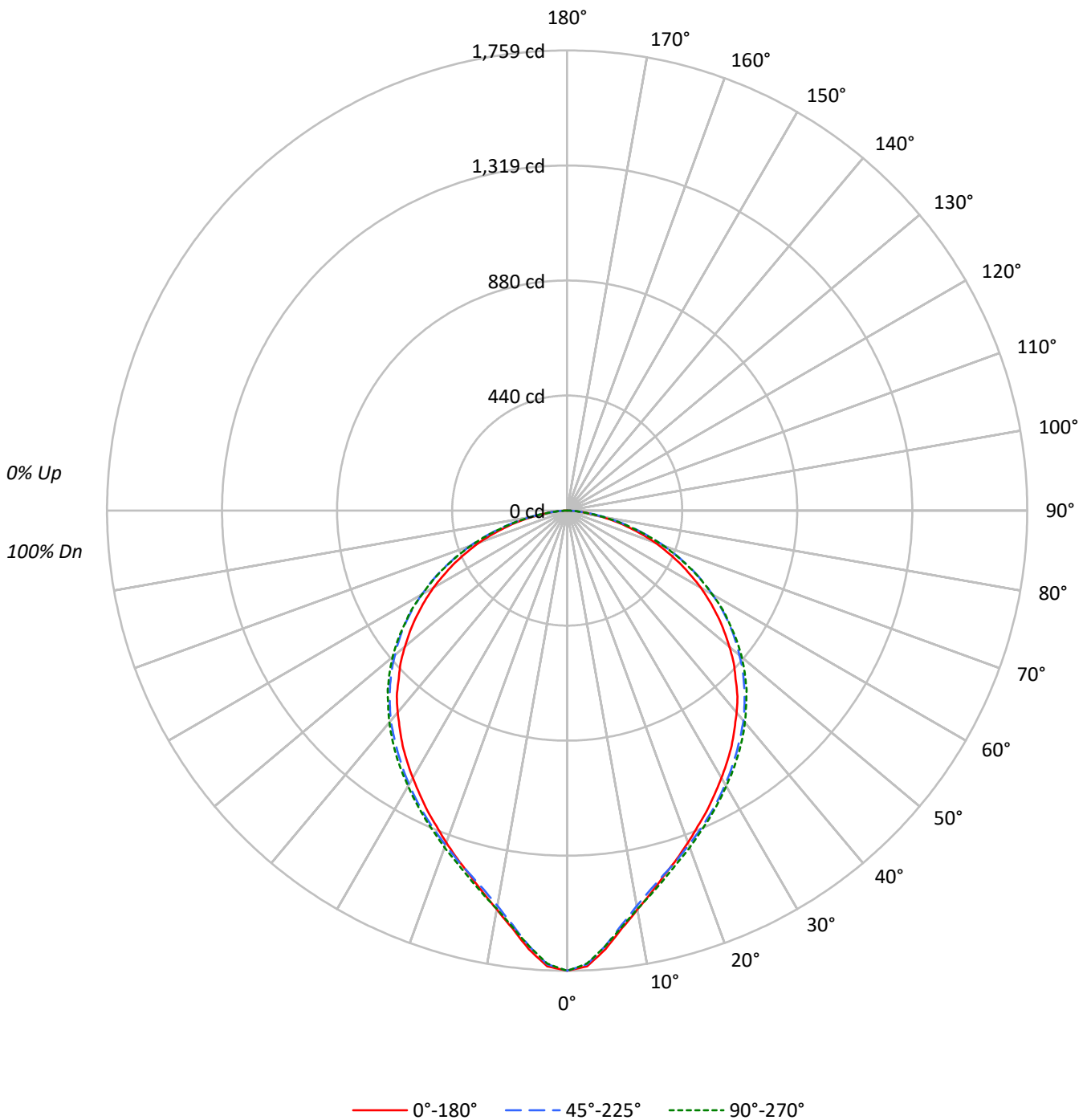
Lumens per Lamp: N/A  
Luminaire Lumens: 4085.8 lumens  
Efficiency: N/A  
Efficacy: 94.6 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 43.2  
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°	4733	4733	4733
5°	4545	4513	4513
10°	4230	4191	4224
15°	4014	4006	4046
20°	3867	3894	3924
25°	3756	3817	3839
30°	3666	3756	3779
35°	3602	3708	3746
40°	3539	3682	3713
45°	3466	3647	3690
50°	3389	3601	3649
55°	3295	3549	3563
60°	3177	3451	3444
65°	3011	3319	3297
70°	2811	3095	3057
75°	2482	2742	2715
80°	2016	2235	2125
85°	1399	1423	1371



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	155.4	3.8
10°-20°	407.1	10.0
20°-30°	592.0	14.5
30°-40°	704.5	17.2
40°-50°	731.5	17.9
50°-60°	662.7	16.2
60°-70°	500.1	12.2
70°-80°	272.5	6.7
80°-90°	59.9	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°	1154.6	28.3
0°-40°	1859.1	45.5
0°-60°	3253.4	79.6
0°-90°	4085.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4085.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1759	1759	1759	1759	1759	
5°	1682	1679	1671	1670	1671	156
15°	1441	1437	1438	1448	1452	407
25°	1265	1276	1286	1296	1293	583
35°	1097	1110	1129	1146	1140	686
45°	911	927	958	969	970	704
55°	702	719	756	762	760	627
65°	473	487	521	520	518	468
75°	239	248	264	266	261	254
85°	45	46	46	46	44	57
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1759.0	1759.0	1759.0	1759.0	1759.0
2.5°	1743.6	1741.9	1736.1	1733.9	1733.5
5°	1682.5	1678.6	1670.6	1669.8	1670.6
7.5°	1609.6	1605.1	1597.3	1600.3	1604.3
10°	1548.0	1537.0	1533.9	1538.3	1545.8
12.5°	1493.1	1484.3	1481.6	1493.1	1498.4
15°	1440.8	1437.2	1438.1	1447.8	1452.2
17.5°	1395.5	1393.3	1399.0	1406.5	1408.7
20°	1350.2	1354.6	1359.9	1367.8	1370.4
22.5°	1305.8	1314.2	1323.0	1333.5	1330.0
25°	1265.0	1275.5	1285.6	1296.2	1293.1
27.5°	1221.4	1233.7	1247.8	1259.3	1254.9
30°	1179.7	1195.1	1208.7	1222.8	1216.2
32.5°	1138.4	1152.9	1169.1	1186.3	1178.8
35°	1096.6	1109.8	1128.7	1145.9	1140.2
37.5°	1050.5	1066.7	1088.3	1103.2	1099.3
40°	1007.4	1022.4	1048.3	1058.0	1057.1
42.5°	963.9	976.2	1003.4	1014.4	1012.7
45°	910.7	927.0	958.2	968.7	969.6
47.5°	863.7	877.3	910.7	919.0	920.8
50°	809.6	826.8	860.2	870.3	871.6
52.5°	756.4	774.9	809.2	816.2	817.5
55°	702.4	719.1	756.4	761.7	759.5
57.5°	645.7	665.9	700.2	702.8	705.0
60°	590.3	607.9	641.3	644.8	640.0
62.5°	530.1	548.1	582.4	583.2	579.3
65°	472.9	486.6	521.3	520.4	517.8
67.5°	413.1	429.8	455.4	456.2	454.1
70°	357.3	368.8	393.4	393.8	388.6
72.5°	297.1	309.4	329.2	326.6	325.3
75°	238.7	248.3	263.7	265.5	261.1
77.5°	185.0	192.1	203.5	202.2	197.3
80°	130.1	135.8	144.2	142.4	137.1
82.5°	83.1	86.6	91.9	89.7	87.5
85°	45.3	45.7	46.1	45.7	44.4
87.5°	16.7	17.1	17.1	16.7	15.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)