

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: P489788

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-1STD-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: P489788  
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-24-4-INS-P12125-LD4-1STD-50-120-EDD-90  
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

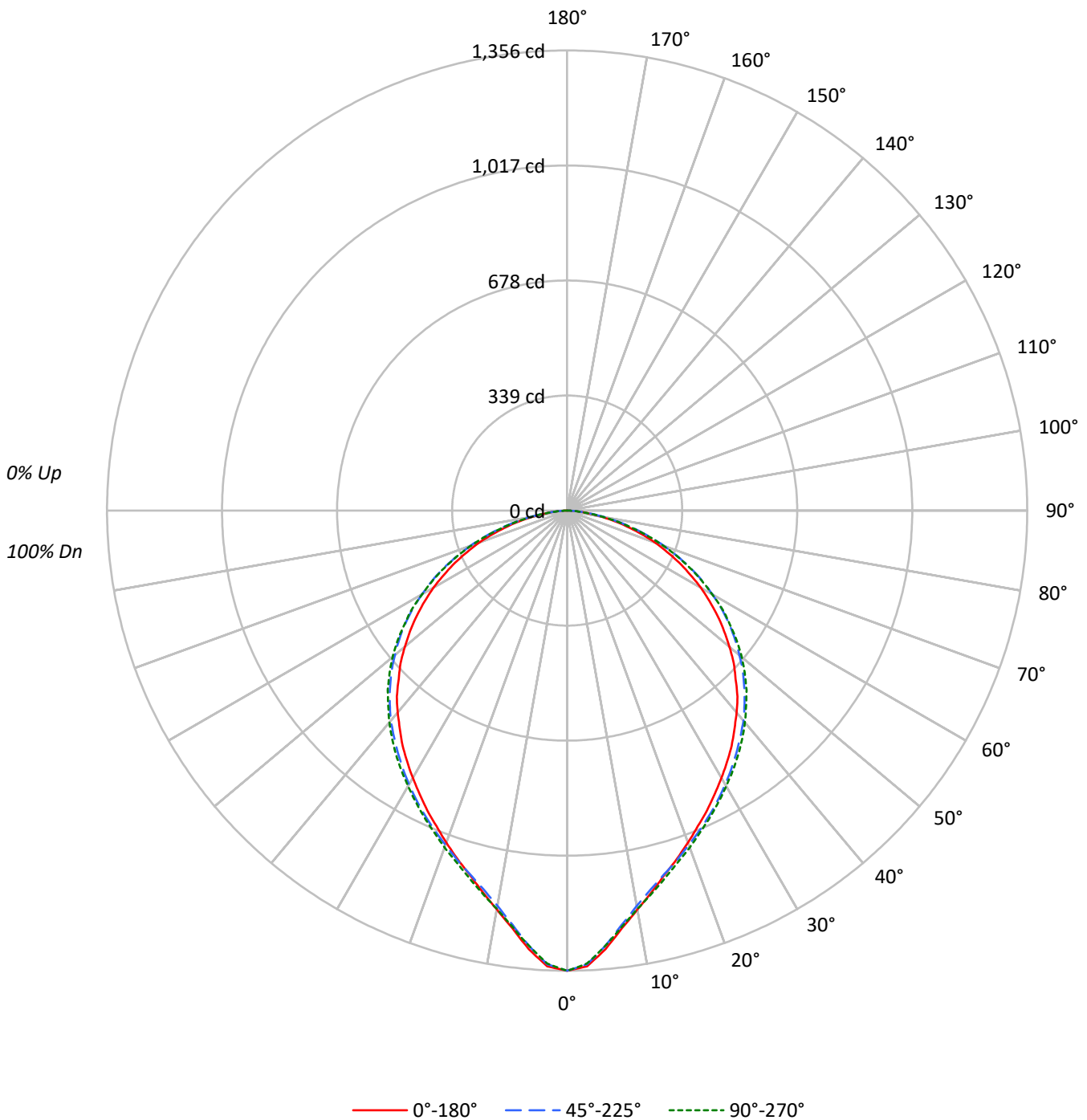
Lumens per Lamp: N/A  
Luminaire Lumens: 3149.6 lumens  
Efficiency: N/A  
Efficacy: 94.6 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 33.3  
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	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					100			
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84					84			
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70					70			
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59					59			
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51					51			
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44					44			
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38					38			
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34					34			
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30					30			
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27					27			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25					25			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1824	1824	1824
5°	1752	1739	1739
10°	1630	1616	1628
15°	1547	1544	1559
20°	1490	1501	1513
25°	1448	1471	1480
30°	1413	1448	1457
35°	1389	1429	1444
40°	1364	1419	1431
45°	1336	1405	1422
50°	1306	1388	1406
55°	1270	1368	1373
60°	1224	1330	1327
65°	1161	1279	1271
70°	1083	1193	1178
75°	957	1057	1046
80°	777	861	819
85°	539	550	528



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	119.8	3.8
10°-20°	313.8	10.0
20°-30°	456.4	14.5
30°-40°	543.1	17.2
40°-50°	563.9	17.9
50°-60°	510.9	16.2
60°-70°	385.5	12.2
70°-80°	210.0	6.7
80°-90°	46.2	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°	890.0	28.3
0°-40°	1433.1	45.5
0°-60°	2507.9	79.6
0°-90°	3149.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3149.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1356	1356	1356	1356	1356	
5°	1297	1294	1288	1287	1288	120
15°	1111	1108	1109	1116	1119	313
25°	975	983	991	999	997	449
35°	845	856	870	883	879	529
45°	702	715	739	747	747	543
55°	541	554	583	587	586	483
65°	365	375	402	401	399	360
75°	184	191	203	205	201	196
85°	35	35	36	35	34	44
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1356.0	1356.0	1356.0	1356.0	1356.0
2.5°	1344.1	1342.7	1338.3	1336.6	1336.3
5°	1297.0	1293.9	1287.8	1287.2	1287.8
7.5°	1240.8	1237.4	1231.3	1233.6	1236.7
10°	1193.3	1184.8	1182.5	1185.9	1191.6
12.5°	1151.0	1144.2	1142.1	1151.0	1155.0
15°	1110.6	1107.9	1108.6	1116.1	1119.4
17.5°	1075.8	1074.1	1078.5	1084.2	1085.9
20°	1040.8	1044.2	1048.3	1054.4	1056.4
22.5°	1006.6	1013.1	1019.9	1028.0	1025.3
25°	975.1	983.2	991.1	999.2	996.8
27.5°	941.6	951.0	961.9	970.7	967.3
30°	909.4	921.2	931.8	942.6	937.5
32.5°	877.5	888.7	901.3	914.5	908.7
35°	845.4	855.5	870.1	883.3	878.9
37.5°	809.8	822.3	838.9	850.4	847.4
40°	776.6	788.1	808.1	815.5	814.9
42.5°	743.0	752.5	773.5	782.0	780.6
45°	702.0	714.6	738.6	746.8	747.4
47.5°	665.8	676.3	702.0	708.5	709.8
50°	624.1	637.3	663.1	670.8	671.9
52.5°	583.1	597.3	623.8	629.2	630.2
55°	541.4	554.3	583.1	587.2	585.5
57.5°	497.7	513.3	539.7	541.8	543.5
60°	455.0	468.6	494.3	497.0	493.3
62.5°	408.6	422.5	448.9	449.6	446.6
65°	364.6	375.1	401.8	401.2	399.1
67.5°	318.5	331.3	351.0	351.7	350.0
70°	275.4	284.3	303.2	303.6	299.5
72.5°	229.0	238.5	253.8	251.7	250.7
75°	184.0	191.4	203.3	204.7	201.3
77.5°	142.6	148.1	156.9	155.9	152.1
80°	100.3	104.7	111.1	109.8	105.7
82.5°	64.0	66.8	70.8	69.1	67.4
85°	34.9	35.2	35.6	35.2	34.2
87.5°	12.9	13.2	13.2	12.9	11.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)