

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: P489782

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-1STD-30-120-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: P489782  
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-30-120-EDD-90  
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

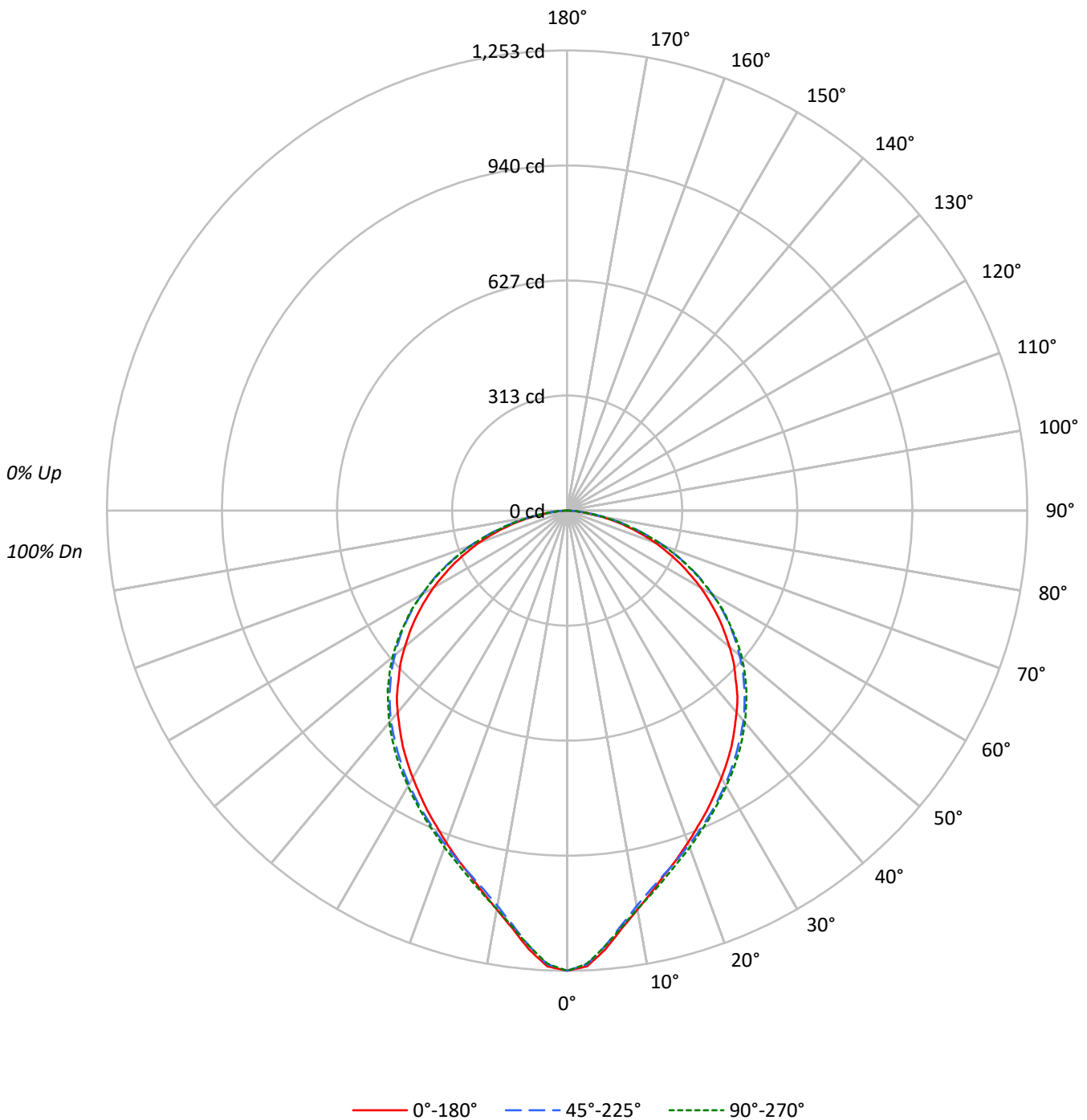
Lumens per Lamp: N/A  
Luminaire Lumens: 2910.3 lumens  
Efficiency: N/A  
Efficacy: 87.4 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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	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°	1686	1686	1686
5°	1619	1607	1607
10°	1507	1493	1504
15°	1429	1427	1441
20°	1377	1387	1398
25°	1338	1360	1367
30°	1306	1338	1346
35°	1283	1321	1334
40°	1260	1312	1322
45°	1234	1299	1314
50°	1207	1283	1299
55°	1174	1264	1269
60°	1131	1229	1227
65°	1073	1182	1174
70°	1001	1102	1089
75°	884	977	967
80°	718	796	757
85°	499	508	488



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	110.7	3.8
10°-20°	290.0	10.0
20°-30°	421.7	14.5
30°-40°	501.8	17.2
40°-50°	521.1	17.9
50°-60°	472.1	16.2
60°-70°	356.2	12.2
70°-80°	194.1	6.7
80°-90°	42.6	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°	822.4	28.3
0°-40°	1324.2	45.5
0°-60°	2317.4	79.6
0°-90°	2910.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2910.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1253	1253	1253	1253	1253	
5°	1198	1196	1190	1189	1190	111
15°	1026	1024	1024	1031	1034	290
25°	901	908	916	923	921	415
35°	781	790	804	816	812	488
45°	649	660	682	690	691	501
55°	500	512	539	543	541	447
65°	337	347	371	371	369	333
75°	170	177	188	189	186	181
85°	32	32	33	32	32	41
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1252.9	1252.9	1252.9	1252.9	1252.9
2.5°	1242.0	1240.7	1236.6	1235.1	1234.8
5°	1198.5	1195.6	1190.0	1189.4	1190.0
7.5°	1146.5	1143.3	1137.7	1139.9	1142.7
10°	1102.7	1094.8	1092.6	1095.8	1101.1
12.5°	1063.5	1057.3	1055.4	1063.5	1067.3
15°	1026.2	1023.7	1024.4	1031.3	1034.4
17.5°	994.0	992.4	996.5	1001.8	1003.4
20°	961.8	964.9	968.7	974.3	976.2
22.5°	930.2	936.1	942.4	949.9	947.4
25°	901.0	908.5	915.8	923.3	921.1
27.5°	870.0	878.8	888.8	897.0	893.8
30°	840.3	851.2	861.0	871.0	866.3
32.5°	810.9	821.2	832.8	845.0	839.7
35°	781.1	790.5	804.0	816.2	812.1
37.5°	748.3	759.8	775.2	785.8	783.0
40°	717.6	728.2	746.7	753.6	752.9
42.5°	686.6	695.4	714.8	722.6	721.3
45°	648.7	660.3	682.5	690.0	690.6
47.5°	615.2	624.9	648.7	654.6	655.9
50°	576.7	588.9	612.7	619.9	620.8
52.5°	538.8	551.9	576.4	581.4	582.3
55°	500.3	512.2	538.8	542.6	541.0
57.5°	459.9	474.3	498.7	500.6	502.2
60°	420.4	433.0	456.8	459.3	455.8
62.5°	377.6	390.4	414.8	415.4	412.6
65°	336.9	346.6	371.3	370.7	368.8
67.5°	294.3	306.2	324.3	325.0	323.4
70°	254.5	262.7	280.2	280.5	276.8
72.5°	211.6	220.4	234.5	232.6	231.7
75°	170.0	176.9	187.9	189.1	186.0
77.5°	131.8	136.8	145.0	144.0	140.6
80°	92.7	96.7	102.7	101.4	97.7
82.5°	59.2	61.7	65.4	63.9	62.3
85°	32.3	32.5	32.9	32.5	31.6
87.5°	11.9	12.2	12.2	11.9	11.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)