

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: P489880

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-4LO-35-120-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: P489880  
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-LD4-4LO-35-120-EDD-90  
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

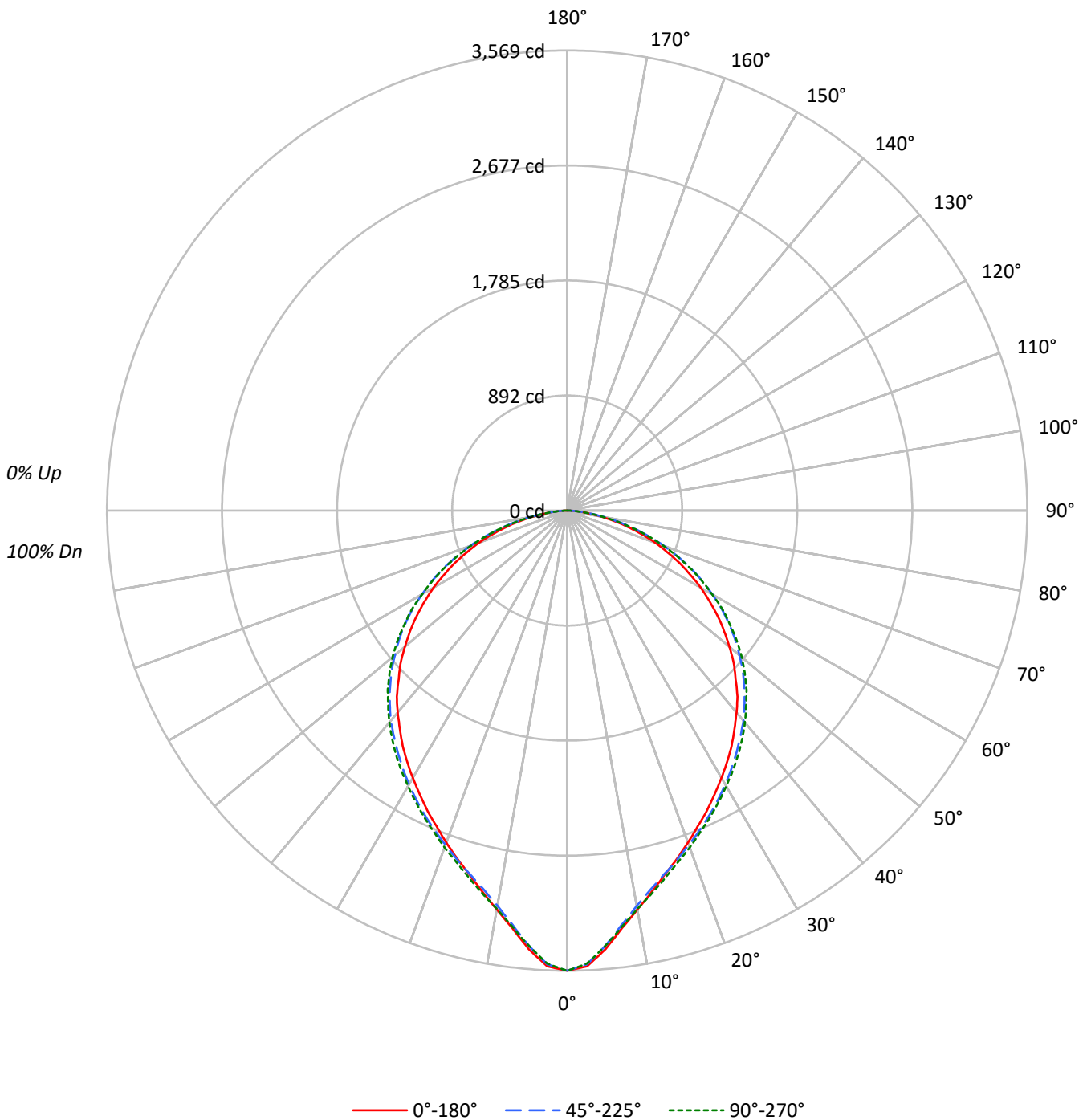
Lumens per Lamp: N/A  
Luminaire Lumens: 8289.7 lumens  
Efficiency: N/A  
Efficacy: 88.6 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 93.6  
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°	4802	4802	4802
5°	4611	4578	4578
10°	4291	4252	4285
15°	4072	4064	4104
20°	3923	3951	3981
25°	3810	3872	3895
30°	3719	3810	3834
35°	3654	3762	3800
40°	3590	3736	3767
45°	3516	3699	3743
50°	3438	3653	3702
55°	3343	3600	3615
60°	3223	3501	3494
65°	3055	3367	3344
70°	2852	3140	3101
75°	2517	2782	2754
80°	2045	2266	2156
85°	1419	1445	1391



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	315.4	3.8
10°-20°	826.0	10.0
20°-30°	1201.2	14.5
30°-40°	1429.4	17.2
40°-50°	1484.2	17.9
50°-60°	1344.6	16.2
60°-70°	1014.6	12.2
70°-80°	552.8	6.7
80°-90°	121.5	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°	2342.6	28.3
0°-40°	3772.0	45.5
0°-60°	6600.8	79.6
0°-90°	8289.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8289.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3569	3569	3569	3569	3569	
5°	3414	3406	3390	3388	3390	317
15°	2923	2916	2918	2938	2946	825
25°	2566	2588	2608	2630	2624	1183
35°	2225	2252	2290	2325	2313	1391
45°	1848	1881	1944	1966	1967	1428
55°	1425	1459	1535	1546	1541	1272
65°	960	987	1058	1056	1050	949
75°	484	504	535	539	530	516
85°	92	93	94	93	90	116
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3568.8	3568.8	3568.8	3568.8	3568.8
2.5°	3537.6	3534.1	3522.5	3518.0	3517.1
5°	3413.7	3405.6	3389.6	3387.8	3389.6
7.5°	3265.6	3256.7	3240.7	3246.9	3255.0
10°	3140.8	3118.5	3112.2	3121.2	3136.3
12.5°	3029.3	3011.5	3006.1	3029.3	3040.1
15°	2923.2	2916.0	2917.9	2937.5	2946.4
17.5°	2831.4	2826.9	2838.5	2853.7	2858.1
20°	2739.5	2748.4	2759.1	2775.2	2780.5
22.5°	2649.4	2666.3	2684.2	2705.6	2698.5
25°	2566.5	2587.9	2608.4	2629.8	2623.6
27.5°	2478.2	2503.1	2531.7	2554.9	2546.0
30°	2393.5	2424.7	2452.4	2480.9	2467.5
32.5°	2309.7	2339.1	2372.1	2406.9	2391.7
35°	2224.9	2251.7	2290.1	2324.9	2313.3
37.5°	2131.3	2164.3	2208.0	2238.3	2230.3
40°	2043.9	2074.3	2126.9	2146.5	2144.7
42.5°	1955.6	1980.6	2035.9	2058.2	2054.6
45°	1847.8	1880.7	1944.0	1965.5	1967.2
47.5°	1752.3	1780.0	1847.8	1864.7	1868.2
50°	1642.6	1677.4	1745.2	1765.7	1768.4
52.5°	1534.7	1572.1	1641.7	1656.0	1658.7
55°	1425.0	1458.9	1534.7	1545.5	1541.0
57.5°	1310.0	1351.0	1420.6	1425.9	1430.4
60°	1197.6	1233.3	1301.1	1308.2	1298.4
62.5°	1075.5	1112.0	1181.6	1183.3	1175.3
65°	959.5	987.2	1057.6	1055.9	1050.5
67.5°	838.2	872.1	923.9	925.6	921.2
70°	725.0	748.2	798.1	799.0	788.3
72.5°	602.9	627.8	667.9	662.6	659.9
75°	484.2	503.9	535.1	538.7	529.7
77.5°	375.4	389.7	412.9	410.2	400.4
80°	263.9	275.5	292.5	289.0	278.2
82.5°	168.5	175.7	186.4	181.9	177.5
85°	91.9	92.7	93.6	92.7	90.1
87.5°	33.9	34.8	34.8	33.9	31.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)