



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: P488837

Luminaire Tested: **CLM-12-4-INS-P12125-LD4-3LO-35-120-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: P488837  
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-12-4-INS-P12125-LD4-3LO-35-120-EDD  
Description: 1X4 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6600.0 lumens  
Efficiency: N/A  
Efficacy: 94.0 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

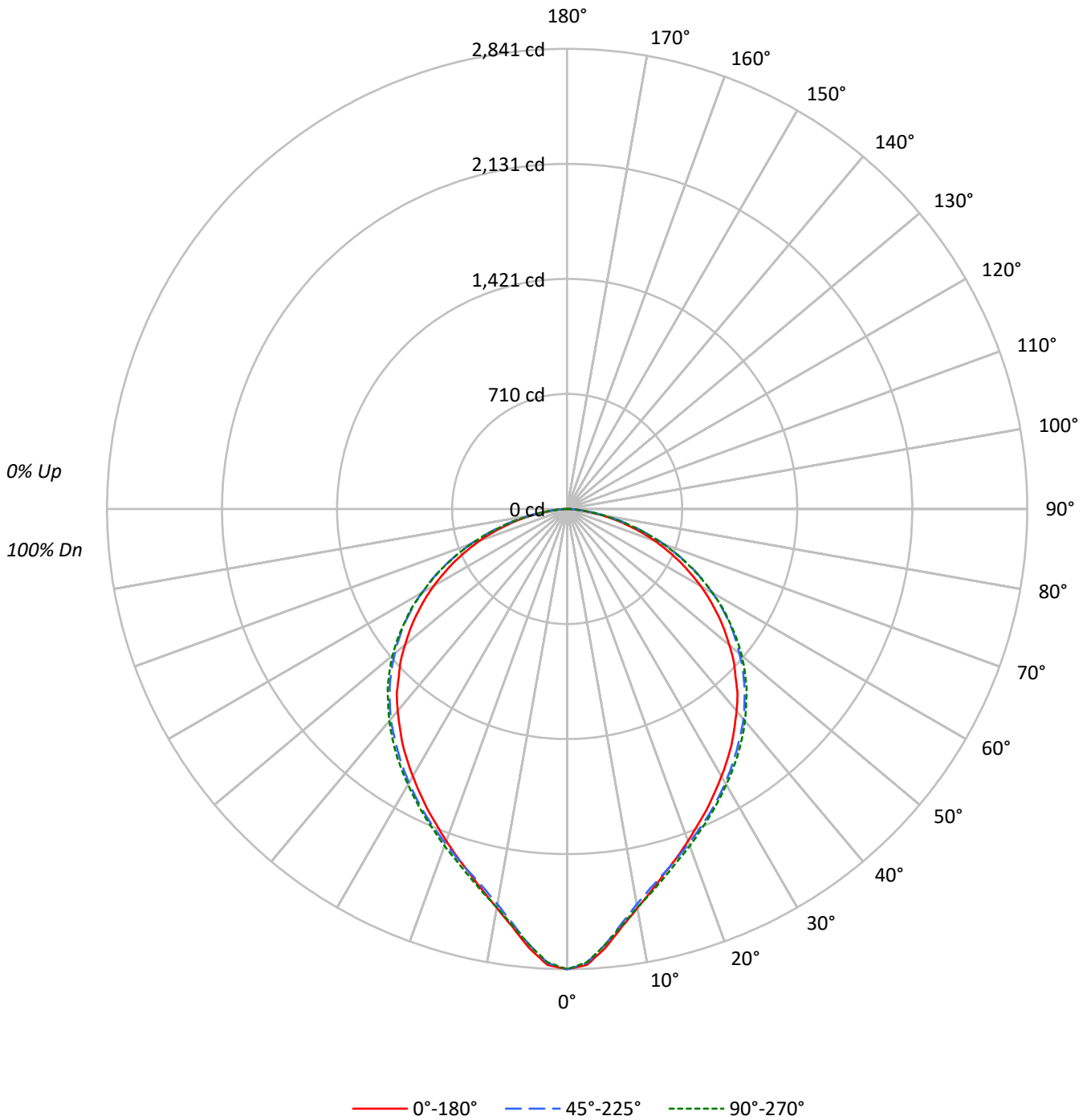
Input Watts (W): 70.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	50	30	10	0	0	0	0
RCR																								
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100	100	100	100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84	84	84	84	84	84	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70	70	70	70	70	70	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59	59	59	59	59	59	59
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51	51	51	51	51	51	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44	44	44	44	44	44	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38	38	38	38	38	38	38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34	34	34	34	34	34	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30	30	30	30	30	30	30
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27	27	27	27	27	27	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25	25	25	25	25	25	25

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

	0°	45°	90°
0°	7646	7646	7646
5°	7342	7290	7290
10°	6833	6771	6823
15°	6484	6472	6535
20°	6246	6291	6340
25°	6067	6166	6202
30°	5921	6067	6105
35°	5819	5990	6050
40°	5716	5948	5998
45°	5598	5890	5960
50°	5475	5817	5894
55°	5323	5733	5756
60°	5132	5575	5564
65°	4864	5361	5325
70°	4541	4999	4939
75°	4008	4429	4384
80°	3256	3609	3433
85°	2257	2300	2214



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	251.1	3.8
10°-20°	657.7	10.0
20°-30°	956.4	14.5
30°-40°	1138.0	17.2
40°-50°	1181.7	17.9
50°-60°	1070.5	16.2
60°-70°	807.8	12.2
70°-80°	440.2	6.7
80°-90°	96.7	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
<b>0°-30°</b>	<b>1865.1</b>	<b>28.3</b>
<b>0°-40°</b>	<b>3003.1</b>	<b>45.5</b>
<b>0°-60°</b>	<b>5255.3</b>	<b>79.6</b>
<b>0°-90°</b>	<b>6600.0</b>	<b>100.0</b>
90°-120°	0.0	0.0
90°-150°	0.0	0.0
<b>90°-180°</b>	<b>0.0</b>	<b>0.0</b>
<b>0°-180°</b>	<b>6600.0</b>	<b>100.0</b>

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2841	2841	2841	2841	2841	
5°	2718	2712	2699	2697	2699	252
15°	2327	2322	2323	2339	2346	657
25°	2043	2060	2077	2094	2089	942
35°	1771	1793	1823	1851	1842	1107
45°	1471	1497	1548	1565	1566	1137
55°	1134	1162	1222	1230	1227	1013
65°	764	786	842	841	836	755
75°	386	401	426	429	422	411
85°	73	74	74	74	72	92
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2841.4	2841.4	2841.4	2841.4	2841.4
2.5°	2816.5	2813.7	2804.5	2800.9	2800.2
5°	2717.9	2711.5	2698.7	2697.3	2698.7
7.5°	2600.0	2592.9	2580.1	2585.1	2591.5
10°	2500.6	2482.9	2477.8	2485.0	2497.0
12.5°	2411.8	2397.6	2393.4	2411.8	2420.4
15°	2327.3	2321.7	2323.1	2338.7	2345.8
17.5°	2254.2	2250.7	2259.9	2272.0	2275.6
20°	2181.1	2188.2	2196.7	2209.5	2213.8
22.5°	2109.4	2122.9	2137.1	2154.1	2148.5
25°	2043.4	2060.4	2076.8	2093.8	2088.8
27.5°	1973.1	1992.9	2015.7	2034.1	2027.0
30°	1905.6	1930.5	1952.5	1975.2	1964.6
32.5°	1838.9	1862.3	1888.6	1916.3	1904.2
35°	1771.4	1792.7	1823.3	1851.0	1841.7
37.5°	1696.9	1723.2	1757.9	1782.1	1775.7
40°	1627.3	1651.5	1693.3	1709.0	1707.5
42.5°	1557.0	1576.9	1620.9	1638.7	1635.8
45°	1471.1	1497.4	1547.8	1564.9	1566.2
47.5°	1395.1	1417.2	1471.1	1484.6	1487.4
50°	1307.8	1335.5	1389.5	1405.8	1407.9
52.5°	1221.9	1251.7	1307.1	1318.4	1320.6
55°	1134.5	1161.5	1221.9	1230.4	1226.9
57.5°	1043.0	1075.6	1131.0	1135.3	1138.8
60°	953.5	981.9	1035.9	1041.5	1033.8
62.5°	856.3	885.4	940.8	942.1	935.7
65°	763.9	786.0	842.0	840.6	836.3
67.5°	667.4	694.3	735.6	737.0	733.5
70°	577.2	595.7	635.4	636.2	627.7
72.5°	480.0	499.8	531.8	527.5	525.4
75°	385.5	401.2	426.0	428.9	421.7
77.5°	298.9	310.3	328.7	326.6	318.8
80°	210.1	219.4	232.9	230.1	221.5
82.5°	134.2	139.9	148.4	144.8	141.3
85°	73.1	73.8	74.5	73.8	71.7
87.5°	27.0	27.7	27.7	27.0	24.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)