

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: P488772

Luminaire Tested: **CLM-12-4-INS-P12125-LD4-1STD-27-120-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: P488772  
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-LD4-1STD-27-120-EDD-90  
Description: 1X4 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

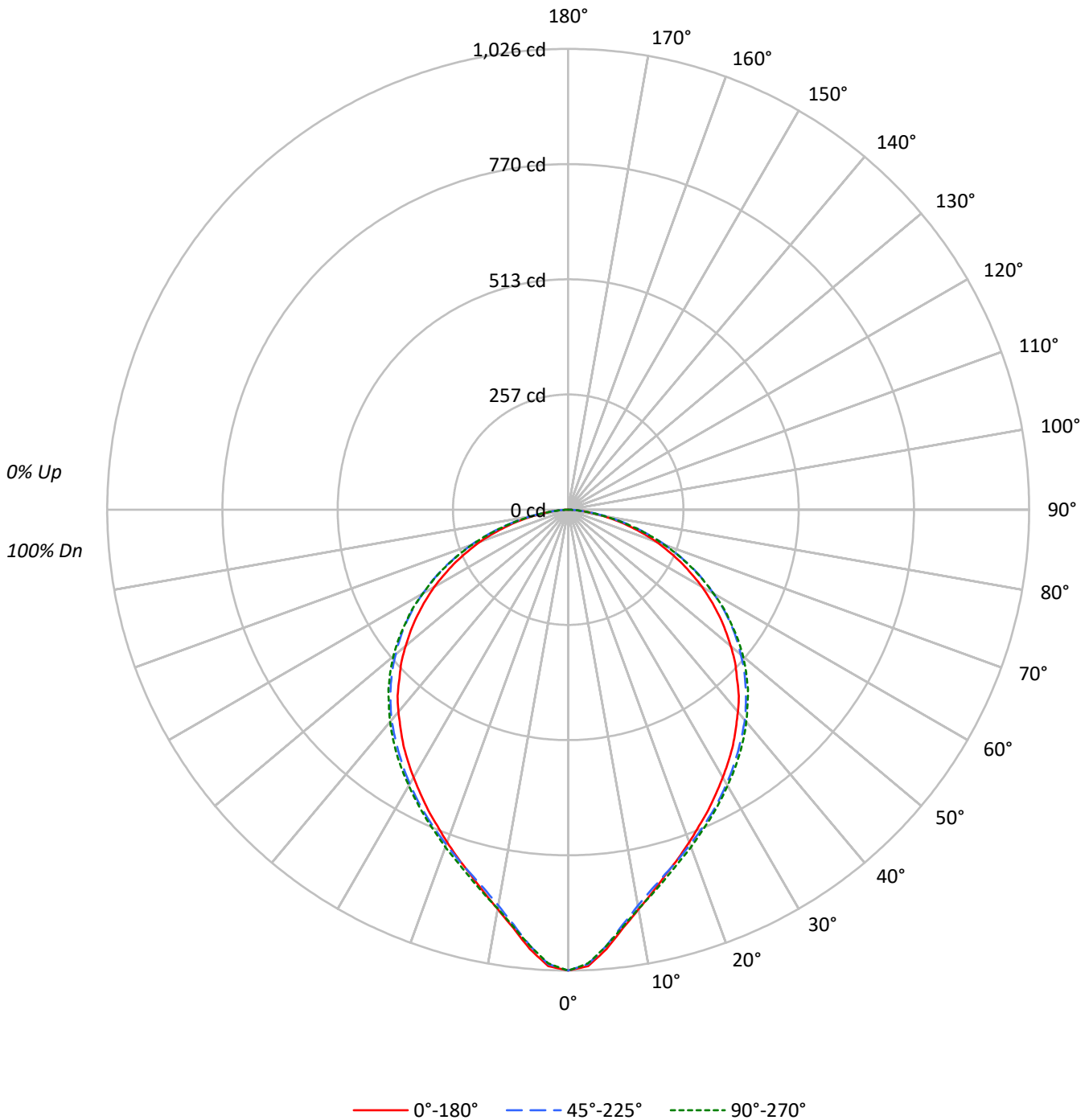
Lumens per Lamp: N/A  
Luminaire Lumens: 2383.2 lumens  
Efficiency: N/A  
Efficacy: 71.6 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 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°	2761	2761	2761
5°	2651	2632	2632
10°	2467	2445	2464
15°	2341	2337	2360
20°	2255	2271	2289
25°	2191	2227	2240
30°	2138	2191	2204
35°	2101	2163	2185
40°	2064	2148	2166
45°	2022	2127	2152
50°	1977	2100	2128
55°	1922	2070	2078
60°	1853	2013	2009
65°	1756	1936	1923
70°	1640	1806	1783
75°	1447	1599	1583
80°	1176	1303	1240
85°	815	831	800



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	90.7	3.8
10°-20°	237.5	10.0
20°-30°	345.3	14.5
30°-40°	410.9	17.2
40°-50°	426.7	17.9
50°-60°	386.6	16.2
60°-70°	291.7	12.2
70°-80°	158.9	6.7
80°-90°	34.9	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°	673.5	28.3
0°-40°	1084.4	45.5
0°-60°	1897.6	79.6
0°-90°	2383.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2383.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1026	1026	1026	1026	1026	
5°	981	979	974	974	974	91
15°	840	838	839	844	847	237
25°	738	744	750	756	754	340
35°	640	647	658	668	665	400
45°	531	541	559	565	566	411
55°	410	419	441	444	443	366
65°	276	284	304	304	302	273
75°	139	145	154	155	152	148
85°	26	27	27	27	26	33
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1026.0	1026.0	1026.0	1026.0	1026.0
2.5°	1017.0	1016.0	1012.7	1011.4	1011.1
5°	981.4	979.1	974.5	974.0	974.5
7.5°	938.8	936.3	931.7	933.5	935.8
10°	902.9	896.5	894.7	897.3	901.7
12.5°	870.9	865.8	864.2	870.9	874.0
15°	840.4	838.3	838.9	844.5	847.0
17.5°	814.0	812.7	816.0	820.4	821.7
20°	787.6	790.1	793.2	797.8	799.4
22.5°	761.7	766.5	771.7	777.8	775.8
25°	737.8	744.0	749.9	756.0	754.3
27.5°	712.5	719.6	727.8	734.5	731.9
30°	688.1	697.1	705.0	713.2	709.4
32.5°	664.0	672.5	681.9	692.0	687.6
35°	639.6	647.3	658.4	668.4	665.0
37.5°	612.7	622.2	634.8	643.5	641.2
40°	587.6	596.3	611.4	617.1	616.6
42.5°	562.2	569.4	585.3	591.7	590.7
45°	531.2	540.7	558.9	565.1	565.6
47.5°	503.8	511.7	531.2	536.1	537.1
50°	472.2	482.2	501.7	507.6	508.4
52.5°	441.2	452.0	472.0	476.1	476.9
55°	409.7	419.4	441.2	444.3	443.0
57.5°	376.6	388.4	408.4	409.9	411.2
60°	344.3	354.6	374.0	376.1	373.3
62.5°	309.2	319.7	339.7	340.2	337.9
65°	275.8	283.8	304.0	303.5	302.0
67.5°	241.0	250.7	265.6	266.1	264.8
70°	208.4	215.1	229.5	229.7	226.6
72.5°	173.3	180.5	192.0	190.5	189.7
75°	139.2	144.9	153.8	154.9	152.3
77.5°	107.9	112.0	118.7	117.9	115.1
80°	75.9	79.2	84.1	83.1	80.0
82.5°	48.4	50.5	53.6	52.3	51.0
85°	26.4	26.7	26.9	26.7	25.9
87.5°	9.7	10.0	10.0	9.7	9.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)