

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: P488486

Luminaire Tested: **CLM-12-2-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: P488486  
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-12-2-INS-P12125-LD4-1STD-30-120-EDD-90  
Description: 1X2 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

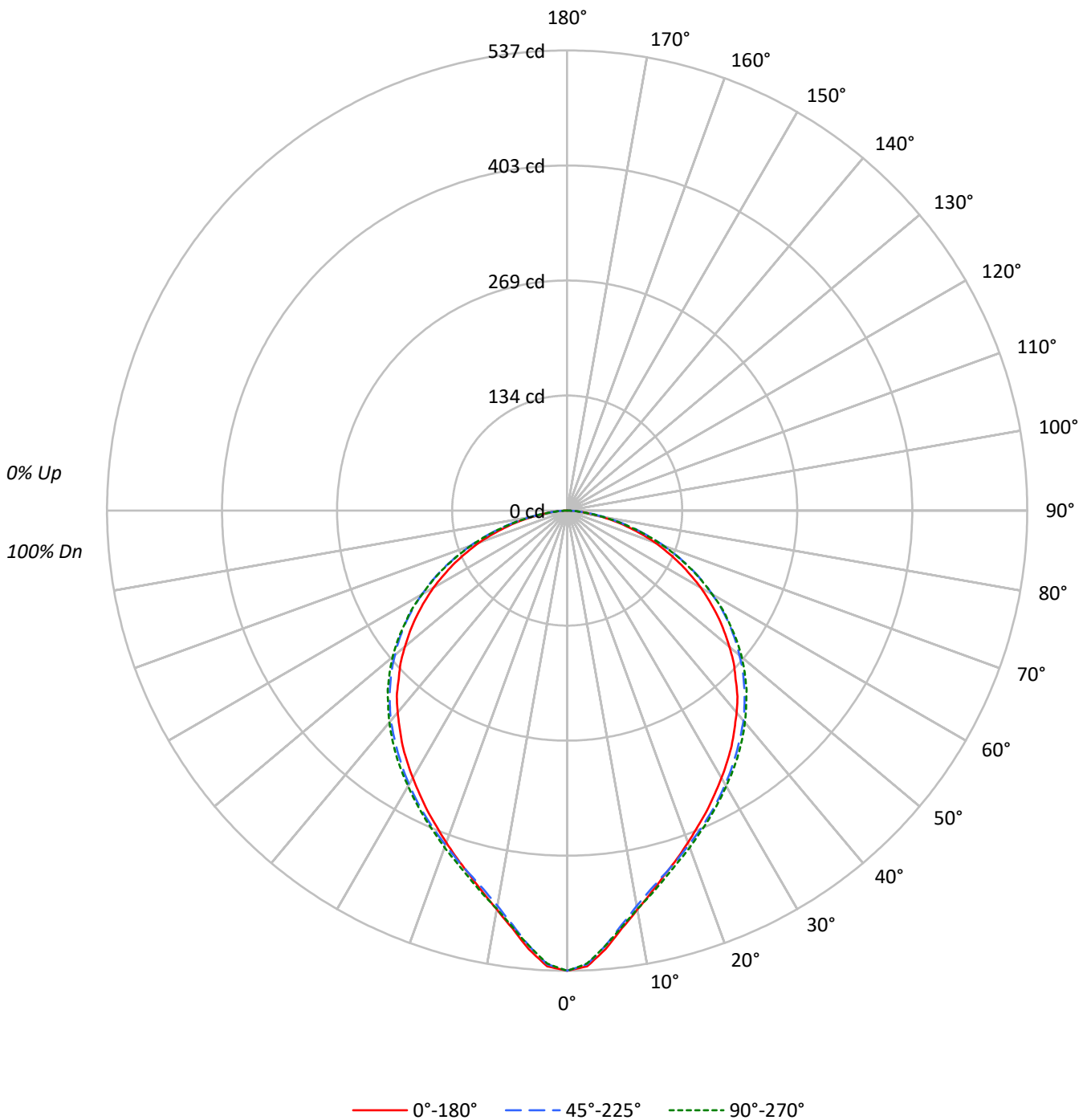
Lumens per Lamp: N/A  
Luminaire Lumens: 1247.4 lumens  
Efficiency: N/A  
Efficacy: 75.1 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 16.6  
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°	2890	2890	2890
5°	2775	2755	2755
10°	2583	2559	2579
15°	2451	2447	2471
20°	2361	2378	2396
25°	2293	2331	2344
30°	2238	2293	2307
35°	2200	2264	2287
40°	2161	2248	2267
45°	2116	2226	2253
50°	2070	2199	2228
55°	2012	2167	2176
60°	1940	2108	2103
65°	1839	2026	2013
70°	1717	1890	1866
75°	1516	1674	1657
80°	1230	1364	1299
85°	852	871	840



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	47.5	3.8
10°-20°	124.3	10.0
20°-30°	180.8	14.5
30°-40°	215.1	17.2
40°-50°	223.3	17.9
50°-60°	202.3	16.2
60°-70°	152.7	12.2
70°-80°	83.2	6.7
80°-90°	18.3	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°	352.5	28.3
0°-40°	567.6	45.5
0°-60°	993.3	79.6
0°-90°	1247.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1247.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	537	537	537	537	537	
5°	514	512	510	510	510	48
15°	440	439	439	442	443	124
25°	386	389	392	396	395	178
35°	335	339	345	350	348	209
45°	278	283	292	296	296	215
55°	214	220	231	233	232	191
65°	144	148	159	159	158	143
75°	73	76	80	81	80	78
85°	14	14	14	14	14	17
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	537.0	537.0	537.0	537.0	537.0
2.5°	532.3	531.8	530.0	529.4	529.2
5°	513.7	512.5	510.0	509.8	510.0
7.5°	491.4	490.1	487.6	488.6	489.8
10°	472.6	469.3	468.3	469.7	471.9
12.5°	455.8	453.2	452.3	455.8	457.5
15°	439.9	438.8	439.1	442.0	443.4
17.5°	426.1	425.4	427.1	429.4	430.1
20°	412.2	413.6	415.2	417.6	418.4
22.5°	398.7	401.2	403.9	407.1	406.1
25°	386.2	389.4	392.5	395.7	394.8
27.5°	372.9	376.7	381.0	384.5	383.1
30°	360.2	364.9	369.0	373.3	371.3
32.5°	347.6	352.0	356.9	362.2	359.9
35°	334.8	338.8	344.6	349.8	348.1
37.5°	320.7	325.7	332.2	336.8	335.6
40°	307.6	312.1	320.0	323.0	322.7
42.5°	294.3	298.0	306.4	309.7	309.2
45°	278.0	283.0	292.5	295.8	296.0
47.5°	263.7	267.8	278.0	280.6	281.1
50°	247.2	252.4	262.6	265.7	266.1
52.5°	230.9	236.6	247.0	249.2	249.6
55°	214.4	219.5	230.9	232.6	231.9
57.5°	197.1	203.3	213.8	214.6	215.2
60°	180.2	185.6	195.8	196.9	195.4
62.5°	161.8	167.3	177.8	178.1	176.9
65°	144.4	148.5	159.1	158.9	158.1
67.5°	126.1	131.2	139.0	139.3	138.6
70°	109.1	112.6	120.1	120.2	118.6
72.5°	90.7	94.5	100.5	99.7	99.3
75°	72.9	75.8	80.5	81.1	79.7
77.5°	56.5	58.6	62.1	61.7	60.2
80°	39.7	41.5	44.0	43.5	41.9
82.5°	25.4	26.4	28.0	27.4	26.7
85°	13.8	14.0	14.1	14.0	13.6
87.5°	5.1	5.2	5.2	5.1	4.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)