

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: P489229

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-1LO-27-120-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: P489229  
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-24-2-INS-P12125-LD4-1LO-27-120-EDD  
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

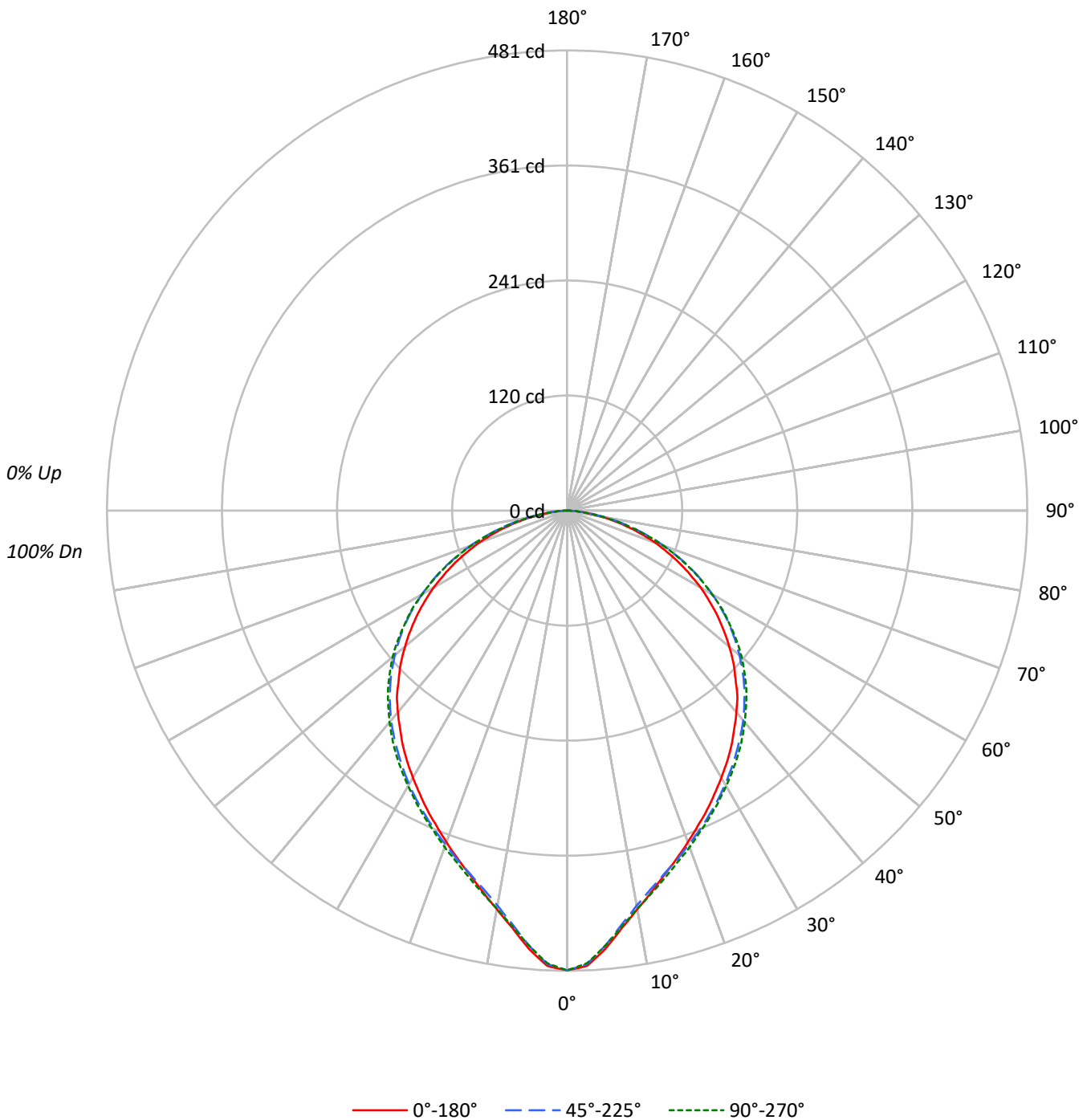
Lumens per Lamp: N/A  
Luminaire Lumens: 1116.4 lumens  
Efficiency: N/A  
Efficacy: 95.4 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 11.7  
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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84					84			
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70					70			
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59					59			
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51					51			
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44					44			
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38					38			
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34					34			
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30					30			
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27					27			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25					25			

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

	0°	45°	90°
0°	1293	1293	1293
5°	1242	1233	1233
10°	1156	1145	1154
15°	1097	1095	1105
20°	1056	1064	1072
25°	1026	1043	1049
30°	1001	1026	1033
35°	984	1013	1023
40°	967	1006	1015
45°	947	996	1008
50°	926	984	997
55°	900	970	974
60°	868	943	941
65°	823	907	901
70°	768	846	836
75°	678	750	741
80°	550	611	581
85°	383	389	374



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	42.5	3.8
10°-20°	111.2	10.0
20°-30°	161.8	14.5
30°-40°	192.5	17.2
40°-50°	199.9	17.9
50°-60°	181.1	16.2
60°-70°	136.6	12.2
70°-80°	74.4	6.7
80°-90°	16.4	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°	315.5	28.3
0°-40°	508.0	45.5
0°-60°	888.9	79.6
0°-90°	1116.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1116.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	481	481	481	481	481	
5°	460	459	456	456	456	43
15°	394	393	393	396	397	111
25°	346	348	351	354	353	159
35°	300	303	308	313	312	187
45°	249	253	262	265	265	192
55°	192	196	207	208	208	171
65°	129	133	142	142	142	128
75°	65	68	72	72	71	69
85°	12	12	13	12	12	16
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	480.6	480.6	480.6	480.6	480.6
2.5°	476.4	475.9	474.4	473.8	473.7
5°	459.7	458.6	456.5	456.2	456.5
7.5°	439.8	438.6	436.4	437.3	438.4
10°	423.0	420.0	419.1	420.3	422.4
12.5°	408.0	405.6	404.8	408.0	409.4
15°	393.7	392.7	393.0	395.6	396.8
17.5°	381.3	380.7	382.3	384.3	384.9
20°	368.9	370.1	371.6	373.7	374.5
22.5°	356.8	359.1	361.5	364.4	363.4
25°	345.6	348.5	351.3	354.2	353.3
27.5°	333.7	337.1	341.0	344.1	342.9
30°	322.3	326.5	330.3	334.1	332.3
32.5°	311.1	315.0	319.5	324.1	322.1
35°	299.6	303.2	308.4	313.1	311.5
37.5°	287.0	291.5	297.4	301.4	300.4
40°	275.3	279.3	286.4	289.1	288.8
42.5°	263.4	266.7	274.2	277.2	276.7
45°	248.8	253.3	261.8	264.7	264.9
47.5°	236.0	239.7	248.8	251.1	251.6
50°	221.2	225.9	235.0	237.8	238.2
52.5°	206.7	211.7	221.1	223.0	223.4
55°	191.9	196.5	206.7	208.1	207.5
57.5°	176.4	181.9	191.3	192.0	192.6
60°	161.3	166.1	175.2	176.2	174.9
62.5°	144.8	149.8	159.1	159.4	158.3
65°	129.2	132.9	142.4	142.2	141.5
67.5°	112.9	117.4	124.4	124.7	124.1
70°	97.6	100.8	107.5	107.6	106.2
72.5°	81.2	84.5	89.9	89.2	88.9
75°	65.2	67.9	72.1	72.5	71.3
77.5°	50.6	52.5	55.6	55.2	53.9
80°	35.5	37.1	39.4	38.9	37.5
82.5°	22.7	23.7	25.1	24.5	23.9
85°	12.4	12.5	12.6	12.5	12.1
87.5°	4.6	4.7	4.7	4.6	4.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)