

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: P488492

Luminaire Tested: **CLM-12-2-INS-P12125-LD4-1STD-50-120-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: P488492
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-50-120-EDD-90
Description: 1X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

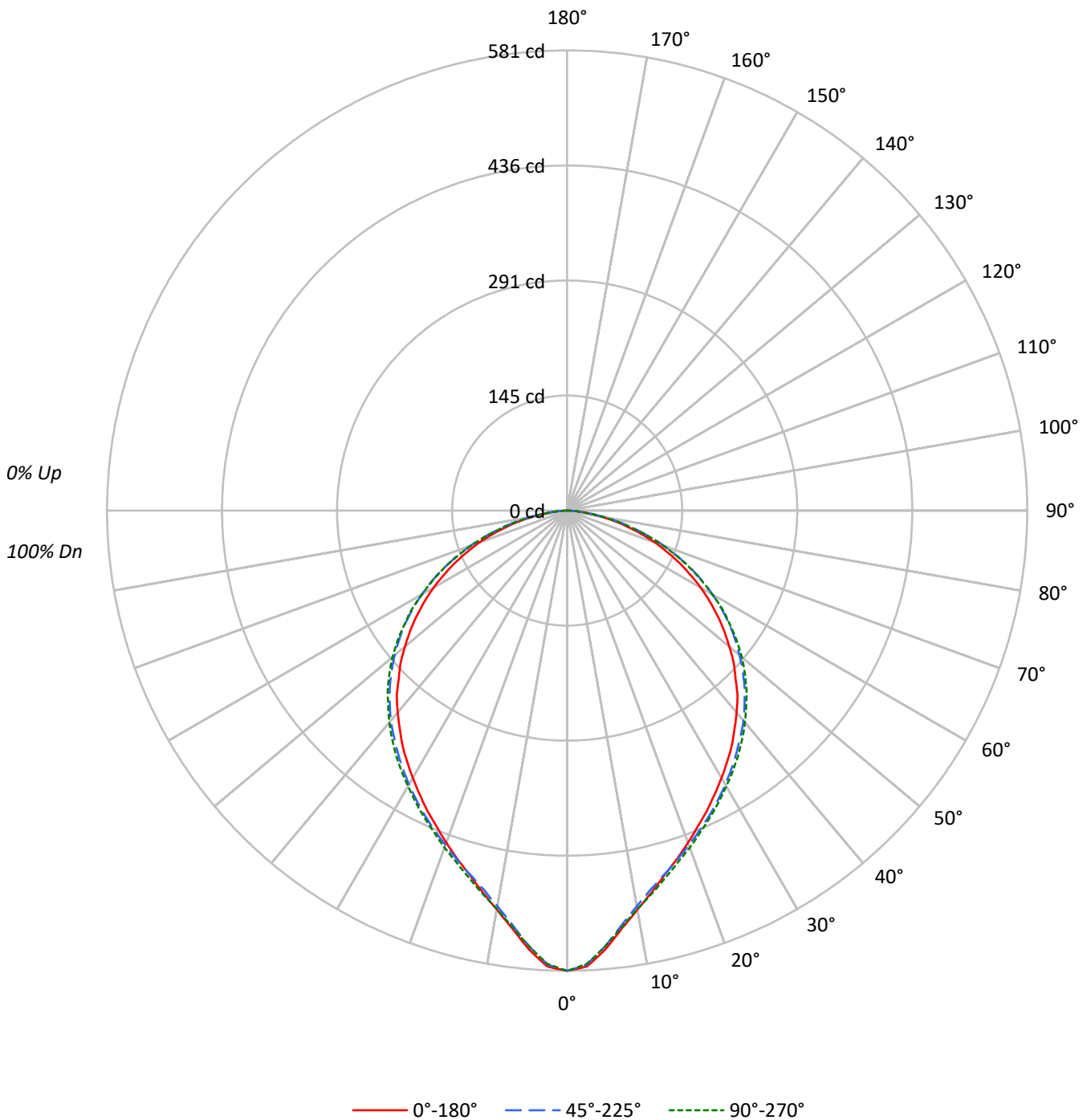
Lumens per Lamp: N/A
Luminaire Lumens: 1349.9 lumens
Efficiency: N/A
Efficacy: 81.3 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.23
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P488492

CATALOG NUMBER: CLM-12-2-INS-P12125-LD4-1STD-50-120-EDD-90

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°	3128	3128	3128
5°	3003	2982	2982
10°	2795	2770	2791
15°	2652	2647	2673
20°	2555	2573	2593
25°	2482	2523	2537
30°	2422	2481	2497
35°	2380	2450	2475
40°	2338	2433	2453
45°	2290	2410	2438
50°	2240	2380	2411
55°	2177	2345	2354
60°	2099	2281	2275
65°	1989	2193	2179
70°	1858	2046	2020
75°	1641	1811	1795
80°	1333	1475	1404
85°	926	939	908



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.4	3.8
10°-20°	134.5	10.0
20°-30°	195.6	14.5
30°-40°	232.8	17.2
40°-50°	241.7	17.9
50°-60°	219.0	16.2
60°-70°	165.2	12.2
70°-80°	90.0	6.7
80°-90°	19.8	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°	381.5	28.3
0°-40°	614.2	45.5
0°-60°	1074.9	79.6
0°-90°	1349.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1349.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	581	581	581	581	581	
5°	556	555	552	552	552	52
15°	476	475	475	478	480	134
25°	418	421	425	428	427	193
35°	362	367	373	379	377	227
45°	301	306	317	320	320	233
55°	232	238	250	252	251	207
65°	156	161	172	172	171	154
75°	79	82	87	88	86	84
85°	15	15	15	15	15	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	581.2	581.2	581.2	581.2	581.2
2.5°	576.1	575.5	573.6	572.9	572.7
5°	555.9	554.6	552.0	551.7	552.0
7.5°	531.8	530.3	527.7	528.7	530.0
10°	511.4	507.8	506.8	508.3	510.7
12.5°	493.3	490.4	489.5	493.3	495.0
15°	476.0	474.8	475.1	478.3	479.8
17.5°	461.1	460.3	462.2	464.7	465.4
20°	446.1	447.6	449.3	451.9	452.8
22.5°	431.4	434.2	437.1	440.6	439.4
25°	417.9	421.4	424.8	428.2	427.2
27.5°	403.6	407.6	412.3	416.0	414.6
30°	389.8	394.8	399.3	404.0	401.8
32.5°	376.1	380.9	386.3	391.9	389.5
35°	362.3	366.7	372.9	378.6	376.7
37.5°	347.1	352.4	359.5	364.5	363.2
40°	332.8	337.8	346.3	349.5	349.2
42.5°	318.5	322.5	331.5	335.2	334.6
45°	300.9	306.3	316.6	320.1	320.3
47.5°	285.3	289.9	300.9	303.6	304.2
50°	267.5	273.2	284.2	287.5	288.0
52.5°	249.9	256.0	267.3	269.7	270.1
55°	232.0	237.6	249.9	251.7	250.9
57.5°	213.3	220.0	231.3	232.2	232.9
60°	195.0	200.8	211.9	213.0	211.4
62.5°	175.1	181.1	192.4	192.7	191.4
65°	156.2	160.8	172.2	171.9	171.1
67.5°	136.5	142.0	150.4	150.7	150.0
70°	118.1	121.8	130.0	130.1	128.4
72.5°	98.2	102.2	108.8	107.9	107.5
75°	78.9	82.0	87.1	87.7	86.3
77.5°	61.1	63.5	67.2	66.8	65.2
80°	43.0	44.9	47.6	47.1	45.3
82.5°	27.4	28.6	30.4	29.6	28.9
85°	15.0	15.1	15.2	15.1	14.7
87.5°	5.5	5.7	5.7	5.5	5.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)