

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: P488498

Luminaire Tested: **CLM-12-2-INS-P12125-LD4-2HI-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: P488498
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-LD4-2HI-30-120-EDD-90
Description: 1X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

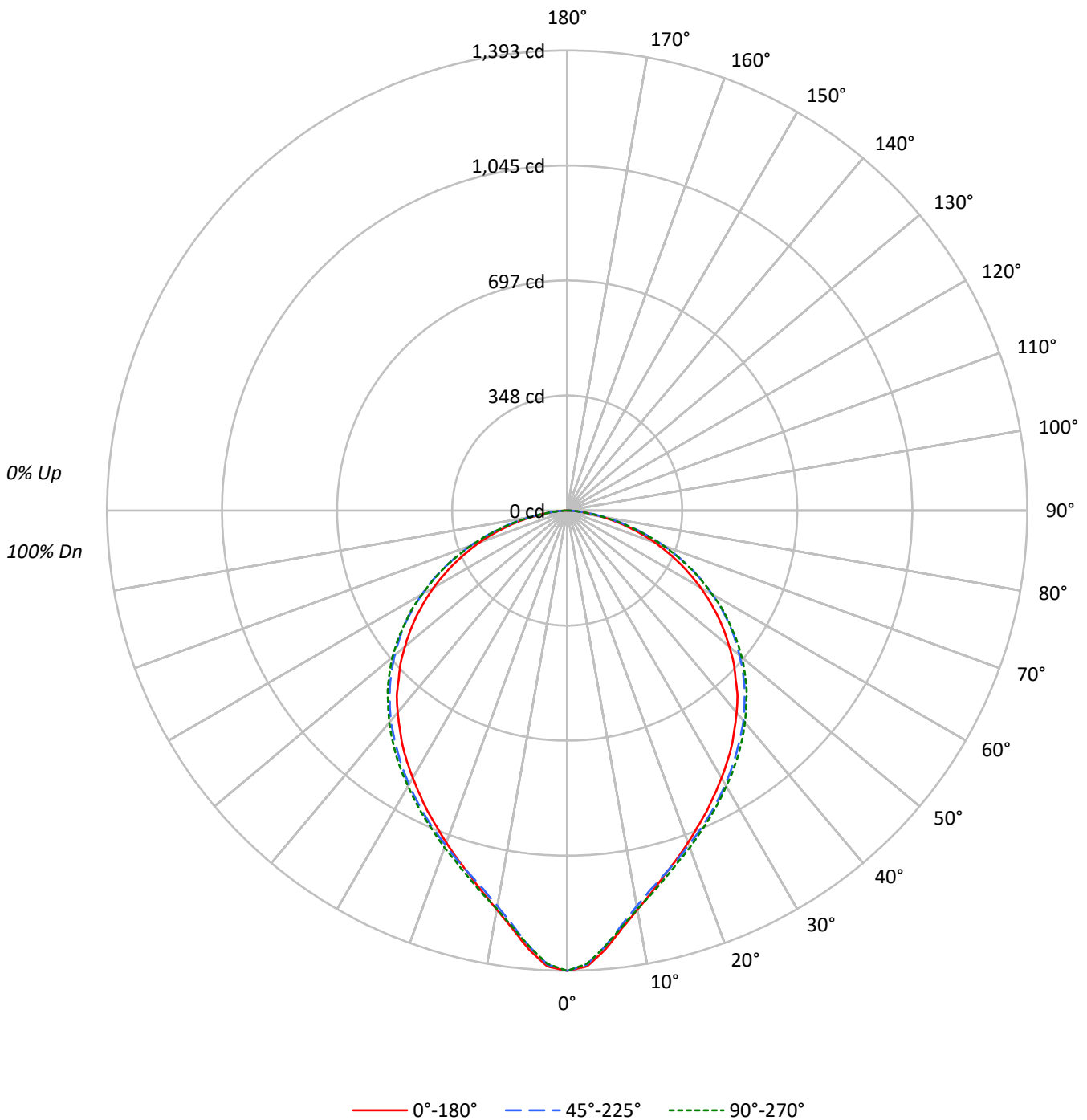
Lumens per Lamp: N/A
Luminaire Lumens: 3236.5 lumens
Efficiency: N/A
Efficacy: 74.9 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 43.2
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	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°	7499	7499	7499
5°	7200	7150	7150
10°	6701	6641	6692
15°	6359	6347	6409
20°	6126	6170	6218
25°	5950	6048	6083
30°	5807	5950	5987
35°	5707	5874	5934
40°	5606	5834	5883
45°	5491	5777	5846
50°	5370	5705	5781
55°	5221	5622	5645
60°	5033	5468	5456
65°	4770	5258	5223
70°	4453	4903	4843
75°	3932	4344	4300
80°	3192	3539	3366
85°	2217	2254	2174



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.1	3.8
10°-20°	322.5	10.0
20°-30°	469.0	14.5
30°-40°	558.1	17.2
40°-50°	579.5	17.9
50°-60°	525.0	16.2
60°-70°	396.1	12.2
70°-80°	215.8	6.7
80°-90°	47.4	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°	914.6	28.3
0°-40°	1472.7	45.5
0°-60°	2577.1	79.6
0°-90°	3236.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3236.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1393	1393	1393	1393	1393	
5°	1333	1330	1323	1323	1323	124
15°	1141	1138	1139	1147	1150	322
25°	1002	1010	1018	1027	1024	462
35°	869	879	894	908	903	543
45°	721	734	759	767	768	558
55°	556	570	599	603	602	497
65°	375	385	413	412	410	370
75°	189	197	209	210	207	201
85°	36	36	36	36	35	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1393.4	1393.4	1393.4	1393.4	1393.4
2.5°	1381.2	1379.8	1375.3	1373.5	1373.2
5°	1332.8	1329.6	1323.4	1322.7	1323.4
7.5°	1275.0	1271.5	1265.2	1267.7	1270.8
10°	1226.2	1217.5	1215.1	1218.6	1224.5
12.5°	1182.7	1175.8	1173.7	1182.7	1186.9
15°	1141.3	1138.5	1139.2	1146.9	1150.3
17.5°	1105.4	1103.7	1108.2	1114.1	1115.9
20°	1069.6	1073.1	1077.2	1083.5	1085.6
22.5°	1034.4	1041.0	1048.0	1056.3	1053.6
25°	1002.0	1010.4	1018.4	1026.7	1024.3
27.5°	967.6	977.3	988.4	997.5	994.0
30°	934.5	946.7	957.5	968.6	963.4
32.5°	901.8	913.2	926.1	939.7	933.8
35°	868.7	879.1	894.1	907.7	903.2
37.5°	832.1	845.0	862.0	873.9	870.8
40°	798.0	809.8	830.4	838.0	837.3
42.5°	763.5	773.3	794.9	803.6	802.2
45°	721.4	734.3	759.0	767.4	768.1
47.5°	684.1	695.0	721.4	728.0	729.4
50°	641.3	654.9	681.4	689.4	690.4
52.5°	599.2	613.8	641.0	646.5	647.6
55°	556.4	569.6	599.2	603.4	601.6
57.5°	511.5	527.5	554.6	556.7	558.5
60°	467.6	481.5	508.0	510.8	506.9
62.5°	419.9	434.2	461.3	462.0	458.9
65°	374.6	385.4	412.9	412.2	410.1
67.5°	327.3	340.5	360.7	361.4	359.7
70°	283.0	292.1	311.6	312.0	307.8
72.5°	235.4	245.1	260.8	258.7	257.7
75°	189.1	196.7	208.9	210.3	206.8
77.5°	146.6	152.1	161.2	160.2	156.3
80°	103.0	107.6	114.2	112.8	108.6
82.5°	65.8	68.6	72.8	71.0	69.3
85°	35.9	36.2	36.5	36.2	35.2
87.5°	13.2	13.6	13.6	13.2	12.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)