

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: P488521

Luminaire Tested: **CLM-12-2-INS-P12125-LD4-2STD-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: P488521
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-LD4-2STD-27-120-EDD
Description: 1X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

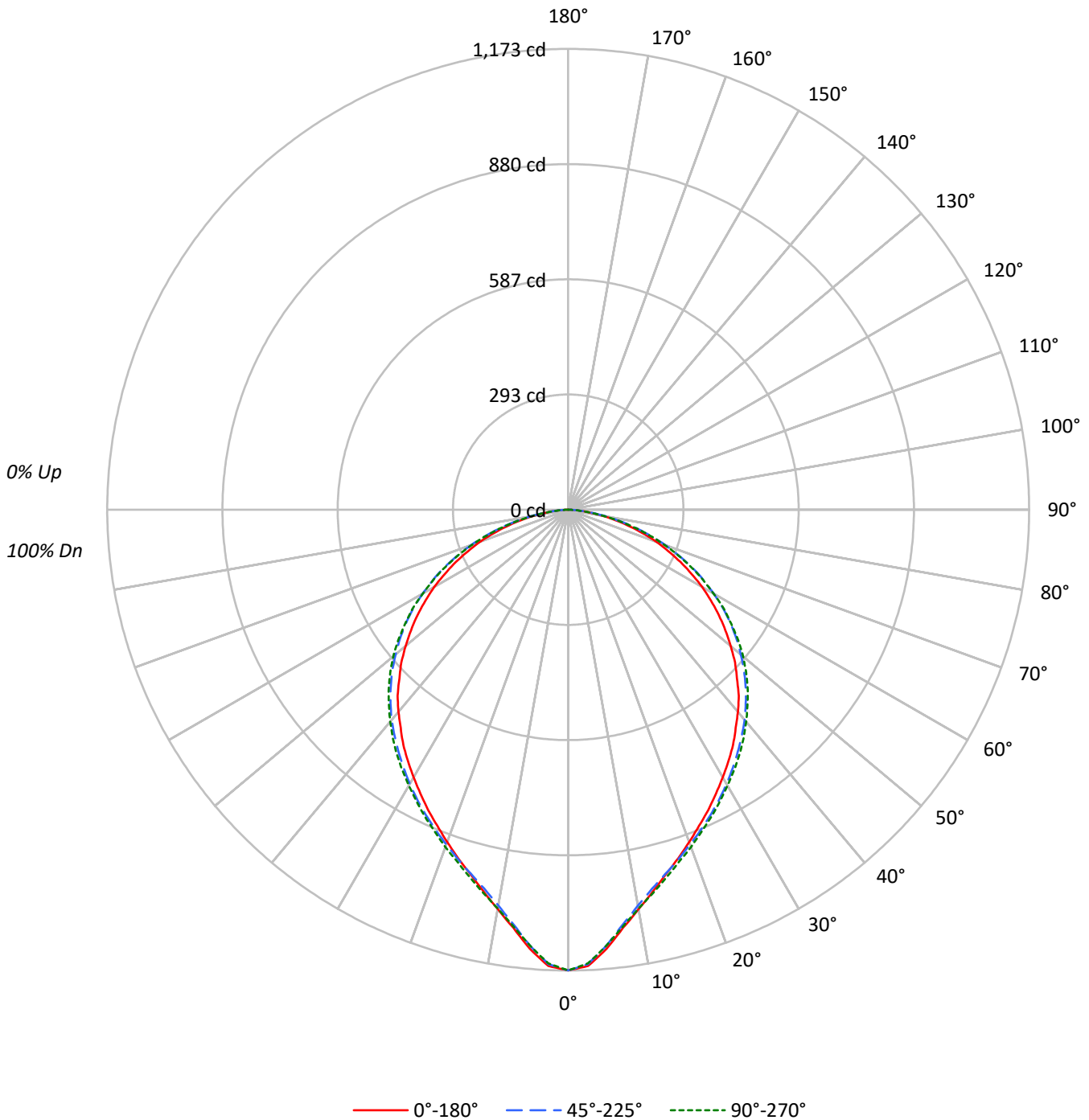
Lumens per Lamp: N/A
Luminaire Lumens: 2723.8 lumens
Efficiency: N/A
Efficacy: 81.8 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	6311	6311	6311
5°	6060	6017	6017
10°	5640	5588	5632
15°	5352	5342	5394
20°	5155	5192	5233
25°	5008	5090	5119
30°	4887	5008	5039
35°	4803	4944	4994
40°	4718	4910	4951
45°	4621	4862	4920
50°	4519	4801	4865
55°	4393	4732	4751
60°	4236	4602	4592
65°	4015	4425	4396
70°	3748	4126	4076
75°	3308	3656	3618
80°	2687	2978	2833
85°	1865	1902	1828



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.6	3.8
10°-20°	271.4	10.0
20°-30°	394.7	14.5
30°-40°	469.7	17.2
40°-50°	487.7	17.9
50°-60°	441.8	16.2
60°-70°	333.4	12.2
70°-80°	181.6	6.7
80°-90°	39.9	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°	769.7	28.3
0°-40°	1239.4	45.5
0°-60°	2168.9	79.6
0°-90°	2723.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2723.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1173	1173	1173	1173	1173	
5°	1122	1119	1114	1113	1114	104
15°	960	958	959	965	968	271
25°	843	850	857	864	862	389
35°	731	740	752	764	760	457
45°	607	618	639	646	646	469
55°	468	479	504	508	506	418
65°	315	324	348	347	345	312
75°	159	166	176	177	174	169
85°	30	30	31	30	30	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1172.6	1172.6	1172.6	1172.6	1172.6
2.5°	1162.4	1161.2	1157.4	1155.9	1155.6
5°	1121.7	1119.0	1113.7	1113.2	1113.7
7.5°	1073.0	1070.1	1064.8	1066.9	1069.5
10°	1032.0	1024.7	1022.6	1025.5	1030.5
12.5°	995.4	989.5	987.7	995.4	998.9
15°	960.5	958.1	958.7	965.2	968.1
17.5°	930.3	928.9	932.7	937.6	939.1
20°	900.1	903.1	906.6	911.9	913.6
22.5°	870.5	876.1	882.0	889.0	886.7
25°	843.3	850.3	857.1	864.1	862.1
27.5°	814.3	822.5	831.9	839.5	836.5
30°	786.4	796.7	805.8	815.2	810.8
32.5°	758.9	768.6	779.4	790.8	785.9
35°	731.1	739.9	752.5	763.9	760.1
37.5°	700.3	711.1	725.5	735.4	732.8
40°	671.6	681.6	698.8	705.3	704.7
42.5°	642.6	650.8	668.9	676.3	675.1
45°	607.1	618.0	638.8	645.8	646.4
47.5°	575.8	584.9	607.1	612.7	613.9
50°	539.7	551.2	573.4	580.2	581.1
52.5°	504.3	516.6	539.4	544.1	545.0
55°	468.2	479.4	504.3	507.8	506.3
57.5°	430.4	443.9	466.8	468.5	470.0
60°	393.5	405.2	427.5	429.8	426.6
62.5°	353.4	365.4	388.2	388.8	386.2
65°	315.3	324.4	347.5	346.9	345.2
67.5°	275.4	286.6	303.6	304.1	302.7
70°	238.2	245.8	262.2	262.5	259.0
72.5°	198.1	206.3	219.5	217.7	216.8
75°	159.1	165.6	175.8	177.0	174.0
77.5°	123.4	128.0	135.7	134.8	131.6
80°	86.7	90.5	96.1	94.9	91.4
82.5°	55.4	57.7	61.2	59.8	58.3
85°	30.2	30.5	30.8	30.5	29.6
87.5°	11.1	11.4	11.4	11.1	10.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)