

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: P488520

Luminaire Tested: **CLM-12-2-INS-P12125-LD4-2STD-27-120-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: P488520
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-90
Description: 1X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

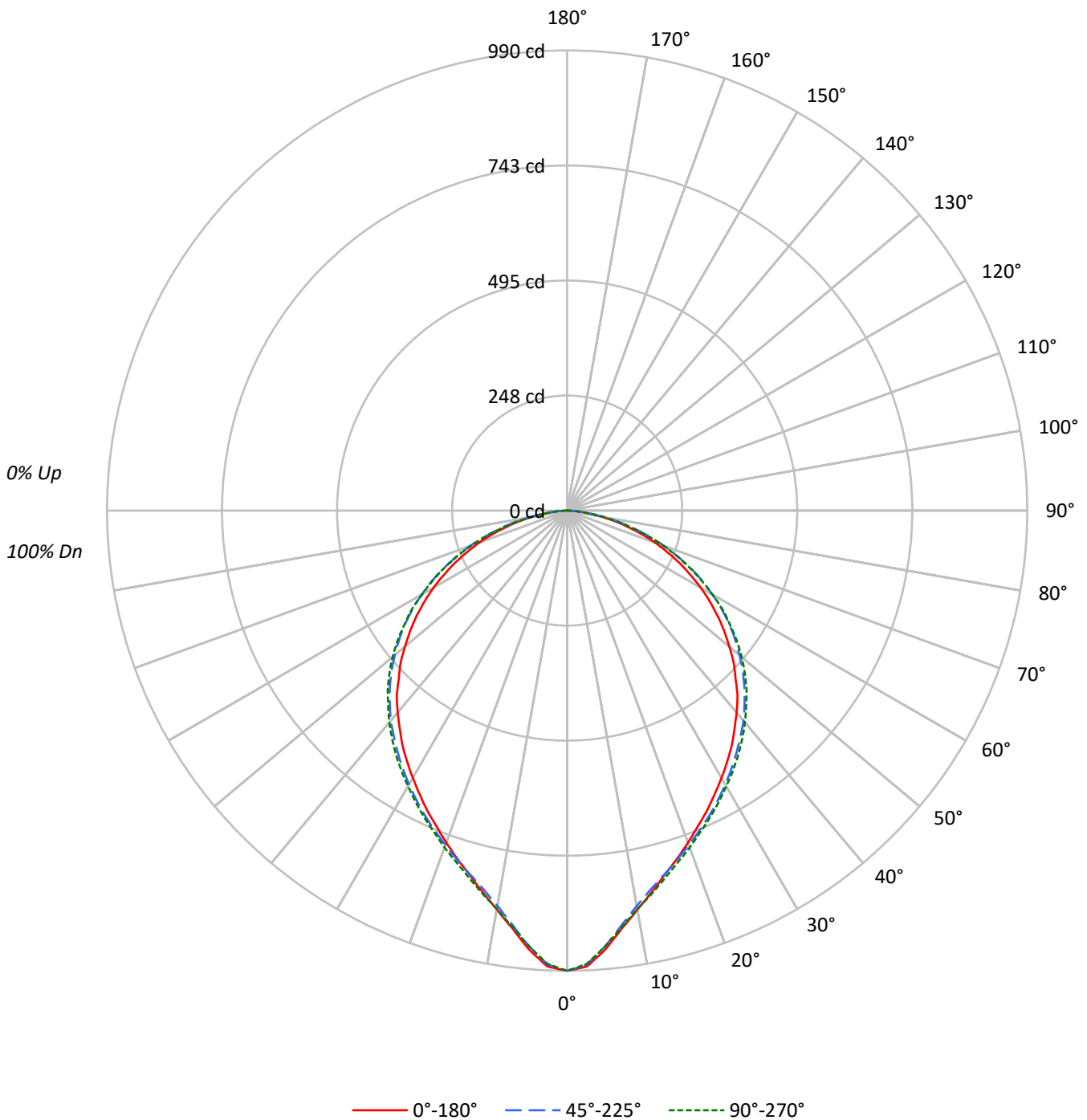
Lumens per Lamp: N/A
Luminaire Lumens: 2299.9 lumens
Efficiency: N/A
Efficacy: 69.1 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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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CATALOG NUMBER: CLM-12-2-INS-P12125-LD4-2STD-27-120-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°	5329	5329	5329
5°	5117	5081	5081
10°	4762	4719	4755
15°	4519	4510	4554
20°	4353	4384	4418
25°	4229	4298	4323
30°	4126	4228	4254
35°	4056	4175	4217
40°	3984	4146	4180
45°	3902	4106	4154
50°	3816	4054	4108
55°	3710	3995	4011
60°	3577	3886	3877
65°	3390	3736	3711
70°	3164	3484	3441
75°	2793	3088	3057
80°	2269	2517	2393
85°	1575	1606	1544



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.5	3.8
10°-20°	229.2	10.0
20°-30°	333.3	14.5
30°-40°	396.6	17.2
40°-50°	411.8	17.9
50°-60°	373.1	16.2
60°-70°	281.5	12.2
70°-80°	153.4	6.7
80°-90°	33.7	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°	649.9	28.3
0°-40°	1046.5	45.5
0°-60°	1831.3	79.6
0°-90°	2299.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2299.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	990	990	990	990	990	
5°	947	945	940	940	940	88
15°	811	809	810	815	817	229
25°	712	718	724	730	728	328
35°	617	625	635	645	642	386
45°	513	522	539	545	546	396
55°	395	405	426	429	428	353
65°	266	274	293	293	291	263
75°	134	140	148	149	147	143
85°	26	26	26	26	25	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	990.1	990.1	990.1	990.1	990.1
2.5°	981.5	980.5	977.3	976.0	975.8
5°	947.1	944.9	940.4	939.9	940.4
7.5°	906.0	903.5	899.1	900.8	903.1
10°	871.4	865.2	863.5	865.9	870.1
12.5°	840.4	835.5	834.0	840.4	843.4
15°	811.0	809.0	809.5	815.0	817.4
17.5°	785.5	784.3	787.5	791.7	793.0
20°	760.0	762.5	765.5	770.0	771.4
22.5°	735.1	739.8	744.7	750.6	748.7
25°	712.1	718.0	723.7	729.6	727.9
27.5°	687.6	694.5	702.4	708.8	706.4
30°	664.0	672.7	680.4	688.3	684.6
32.5°	640.8	649.0	658.1	667.8	663.6
35°	617.3	624.7	635.4	645.0	641.8
37.5°	591.3	600.5	612.6	621.0	618.8
40°	567.1	575.5	590.1	595.5	595.0
42.5°	542.6	549.5	564.8	571.0	570.0
45°	512.6	521.8	539.4	545.3	545.8
47.5°	486.2	493.8	512.6	517.3	518.3
50°	455.7	465.4	484.2	489.9	490.6
52.5°	425.8	436.2	455.5	459.4	460.2
55°	395.4	404.8	425.8	428.8	427.5
57.5°	363.5	374.8	394.1	395.6	396.8
60°	332.3	342.2	361.0	362.9	360.2
62.5°	298.4	308.5	327.8	328.3	326.1
65°	266.2	273.9	293.4	292.9	291.4
67.5°	232.6	242.0	256.3	256.8	255.6
70°	201.1	207.6	221.4	221.7	218.7
72.5°	167.3	174.2	185.3	183.8	183.1
75°	134.3	139.8	148.5	149.4	147.0
77.5°	104.2	108.1	114.6	113.8	111.1
80°	73.2	76.4	81.2	80.2	77.2
82.5°	46.8	48.7	51.7	50.5	49.2
85°	25.5	25.7	26.0	25.7	25.0
87.5°	9.4	9.7	9.7	9.4	8.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)