

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: P488495

Luminaire Tested: **CLM-12-2-INS-P12125-LD4-2HI-20-120-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: P488495
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-20-120-EDD
Description: 1X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

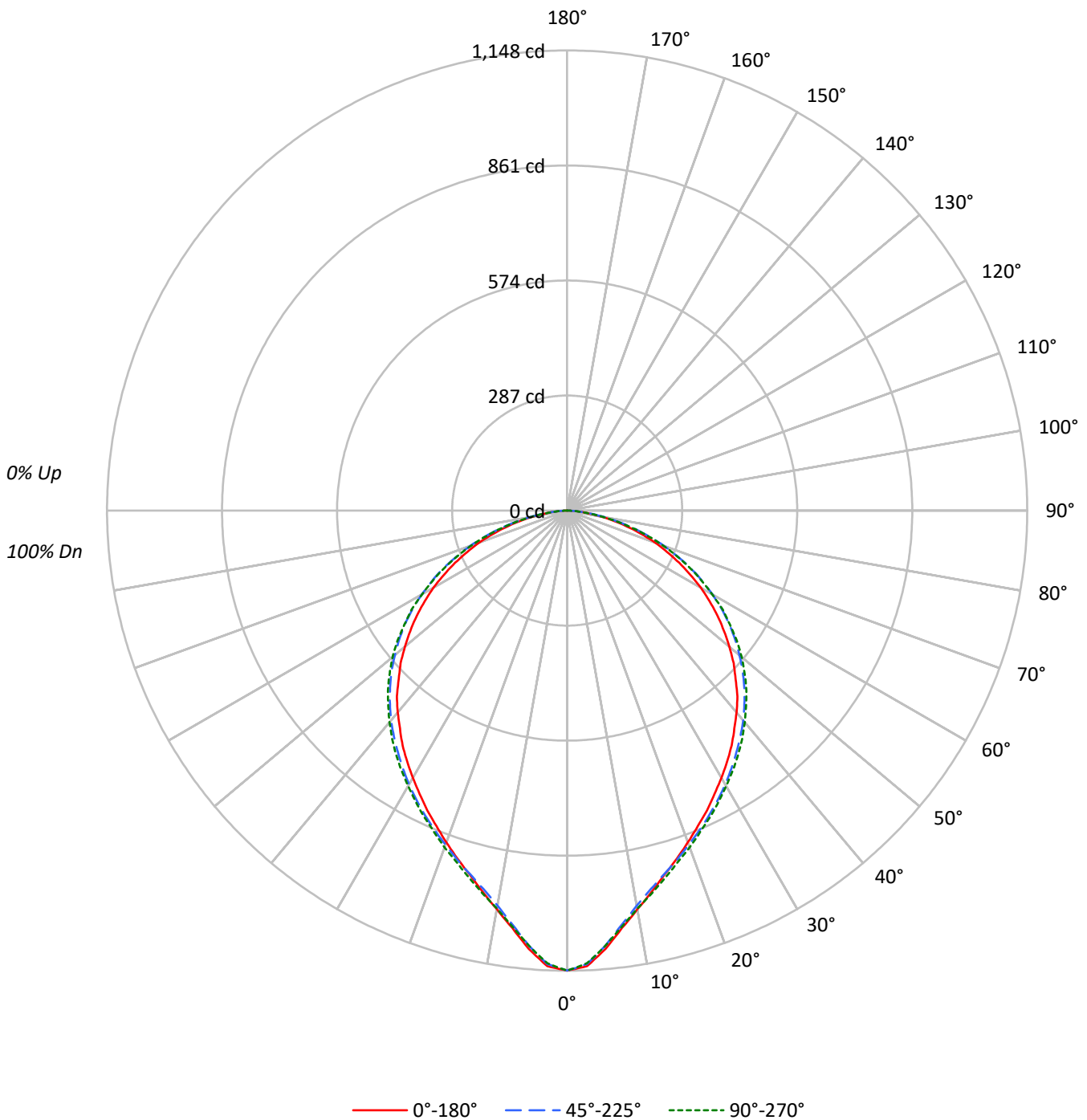
Lumens per Lamp: N/A
Luminaire Lumens: 2665.3 lumens
Efficiency: N/A
Efficacy: 61.7 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	6176	6176	6176
5°	5930	5888	5888
10°	5519	5468	5511
15°	5237	5227	5278
20°	5045	5081	5120
25°	4900	4980	5009
30°	4782	4900	4931
35°	4700	4838	4887
40°	4617	4804	4845
45°	4522	4757	4814
50°	4422	4698	4761
55°	4299	4630	4649
60°	4145	4503	4494
65°	3929	4330	4301
70°	3668	4038	3989
75°	3238	3577	3541
80°	2631	2916	2771
85°	1822	1859	1791



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.4	3.8
10°-20°	265.6	10.0
20°-30°	386.2	14.5
30°-40°	459.6	17.2
40°-50°	477.2	17.9
50°-60°	432.3	16.2
60°-70°	326.2	12.2
70°-80°	177.7	6.7
80°-90°	39.1	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°	753.2	28.3
0°-40°	1212.8	45.5
0°-60°	2122.3	79.6
0°-90°	2665.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2665.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1148	1148	1148	1148	1148	
5°	1098	1095	1090	1089	1090	102
15°	940	938	938	944	947	265
25°	825	832	839	846	844	380
35°	715	724	736	748	744	447
45°	594	605	625	632	632	459
55°	458	469	493	497	496	409
65°	308	317	340	340	338	305
75°	156	162	172	173	170	166
85°	30	30	30	30	29	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1147.5	1147.5	1147.5	1147.5	1147.5
2.5°	1137.4	1136.3	1132.5	1131.1	1130.8
5°	1097.6	1095.0	1089.8	1089.3	1089.8
7.5°	1050.0	1047.1	1041.9	1043.9	1046.5
10°	1009.8	1002.7	1000.6	1003.5	1008.4
12.5°	974.0	968.2	966.5	974.0	977.4
15°	939.9	937.6	938.1	944.5	947.3
17.5°	910.3	908.9	912.6	917.5	918.9
20°	880.8	883.7	887.1	892.3	894.0
22.5°	851.8	857.3	863.0	869.9	867.6
25°	825.2	832.1	838.7	845.5	843.5
27.5°	796.8	804.8	814.0	821.5	818.6
30°	769.5	779.6	788.5	797.6	793.4
32.5°	742.6	752.1	762.7	773.9	769.0
35°	715.4	724.0	736.3	747.5	743.8
37.5°	685.3	695.9	709.9	719.7	717.1
40°	657.2	666.9	683.8	690.1	689.6
42.5°	628.8	636.8	654.6	661.7	660.6
45°	594.1	604.7	625.0	631.9	632.5
47.5°	563.4	572.3	594.1	599.5	600.7
50°	528.1	539.3	561.1	567.7	568.6
52.5°	493.4	505.5	527.8	532.4	533.3
55°	458.2	469.1	493.4	496.9	495.5
57.5°	421.2	434.4	456.8	458.5	459.9
60°	385.1	396.5	418.3	420.6	417.5
62.5°	345.8	357.5	379.9	380.5	377.9
65°	308.5	317.4	340.0	339.5	337.7
67.5°	269.5	280.4	297.0	297.6	296.2
70°	233.1	240.6	256.6	256.9	253.5
72.5°	193.8	201.8	214.7	213.0	212.2
75°	155.7	162.0	172.0	173.2	170.3
77.5°	120.7	125.3	132.8	131.9	128.7
80°	84.9	88.6	94.1	92.9	89.4
82.5°	54.2	56.5	59.9	58.5	57.1
85°	29.5	29.8	30.1	29.8	29.0
87.5°	10.9	11.2	11.2	10.9	10.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)