

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: P488502

Luminaire Tested: **CLM-12-2-INS-P12125-LD4-2HI-40-120-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: P488502
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-40-120-EDD-90
Description: 1X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

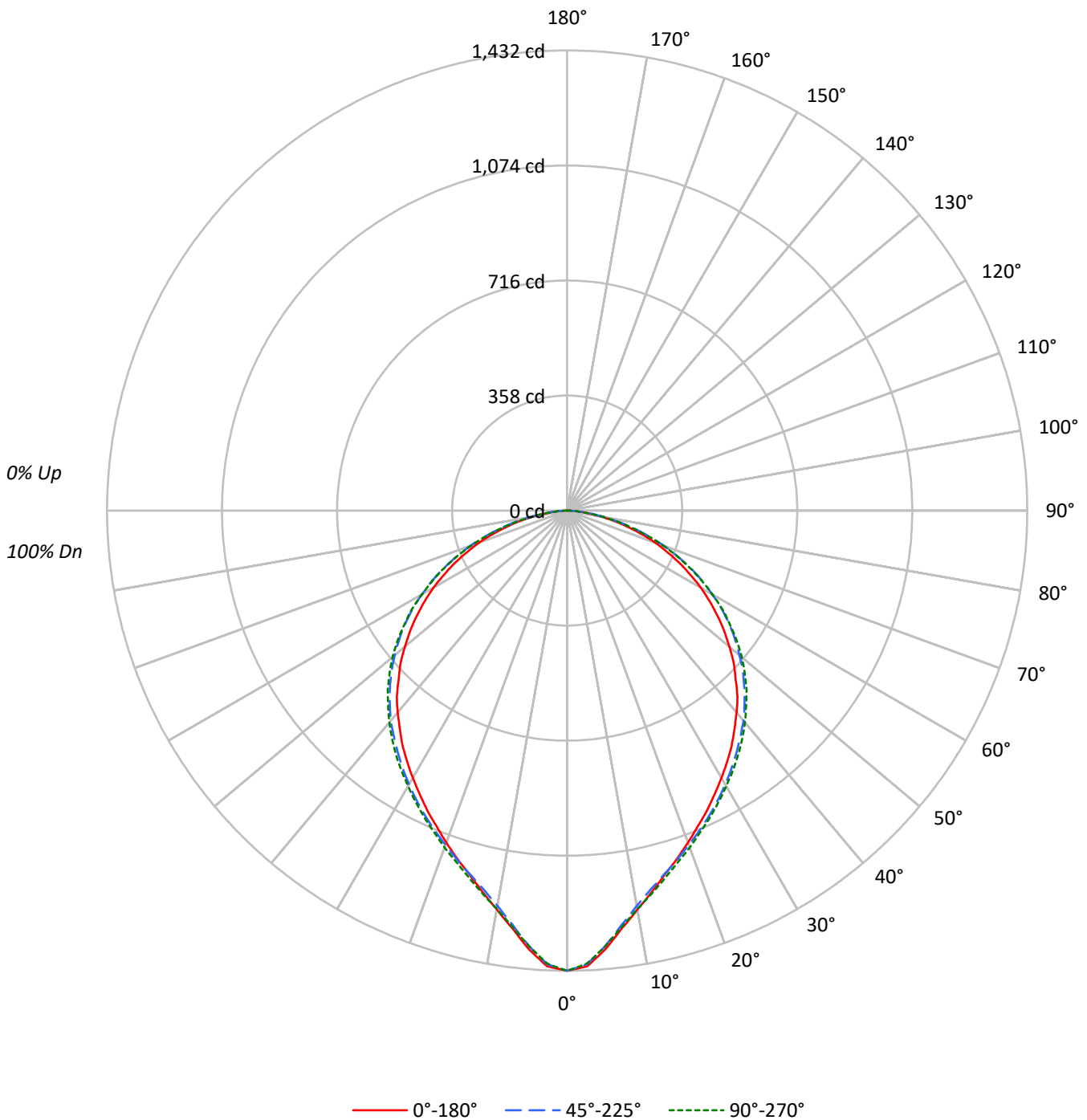
Lumens per Lamp: N/A
Luminaire Lumens: 3326.3 lumens
Efficiency: N/A
Efficacy: 77.0 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 43.2
Input Voltage (V): NR
Input Current (A_{in}): 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°	7707	7707	7707
5°	7400	7348	7348
10°	6888	6825	6878
15°	6535	6523	6587
20°	6296	6341	6390
25°	6115	6216	6251
30°	5968	6115	6153
35°	5866	6037	6098
40°	5762	5996	6046
45°	5643	5938	6008
50°	5519	5863	5941
55°	5365	5778	5802
60°	5172	5620	5608
65°	4903	5405	5368
70°	4578	5040	4977
75°	4040	4465	4419
80°	3282	3639	3459
85°	2279	2322	2229



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.5	3.8
10°-20°	331.4	10.0
20°-30°	482.0	14.5
30°-40°	573.5	17.2
40°-50°	595.5	17.9
50°-60°	539.5	16.2
60°-70°	407.1	12.2
70°-80°	221.8	6.7
80°-90°	48.8	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°	940.0	28.3
0°-40°	1513.5	45.5
0°-60°	2648.6	79.6
0°-90°	3326.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3326.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1432	1432	1432	1432	1432	
5°	1370	1366	1360	1359	1360	127
15°	1173	1170	1171	1179	1182	331
25°	1030	1038	1047	1055	1053	475
35°	893	904	919	933	928	558
45°	741	755	780	789	789	573
55°	572	585	616	620	618	511
65°	385	396	424	424	422	381
75°	194	202	215	216	212	207
85°	37	37	38	37	36	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1432.0	1432.0	1432.0	1432.0	1432.0
2.5°	1419.5	1418.1	1413.4	1411.6	1411.3
5°	1369.8	1366.5	1360.1	1359.4	1360.1
7.5°	1310.4	1306.8	1300.4	1302.8	1306.1
10°	1260.3	1251.3	1248.8	1252.4	1258.5
12.5°	1215.5	1208.4	1206.2	1215.5	1219.8
15°	1172.9	1170.1	1170.8	1178.7	1182.2
17.5°	1136.1	1134.3	1139.0	1145.0	1146.8
20°	1099.2	1102.8	1107.1	1113.6	1115.7
22.5°	1063.1	1069.9	1077.1	1085.6	1082.8
25°	1029.8	1038.4	1046.7	1055.2	1052.7
27.5°	994.4	1004.4	1015.9	1025.2	1021.6
30°	960.4	972.9	984.0	995.5	990.1
32.5°	926.8	938.6	951.8	965.8	959.7
35°	892.8	903.5	918.9	932.9	928.2
37.5°	855.2	868.4	886.0	898.1	894.9
40°	820.1	832.3	853.4	861.3	860.6
42.5°	784.7	794.7	816.9	825.9	824.4
45°	741.4	754.7	780.1	788.7	789.4
47.5°	703.1	714.2	741.4	748.2	749.6
50°	659.1	673.1	700.3	708.5	709.6
52.5°	615.8	630.8	658.8	664.5	665.6
55°	571.8	585.4	615.8	620.1	618.3
57.5°	525.7	542.1	570.0	572.2	574.0
60°	480.5	494.9	522.1	524.9	521.0
62.5°	431.5	446.2	474.1	474.8	471.6
65°	385.0	396.1	424.4	423.7	421.5
67.5°	336.3	349.9	370.7	371.4	369.6
70°	290.9	300.2	320.3	320.6	316.3
72.5°	241.9	251.9	268.0	265.9	264.8
75°	194.3	202.2	214.7	216.1	212.5
77.5°	150.7	156.4	165.7	164.6	160.7
80°	105.9	110.6	117.4	115.9	111.6
82.5°	67.6	70.5	74.8	73.0	71.2
85°	36.9	37.2	37.6	37.2	36.1
87.5°	13.6	14.0	14.0	13.6	12.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)