

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: P488754

Luminaire Tested: **CLM-12-4-INS-P12125-LD4-1HI-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: P488754
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-12-4-INS-P12125-LD4-1HI-40-120-EDD-90
Description: 1X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

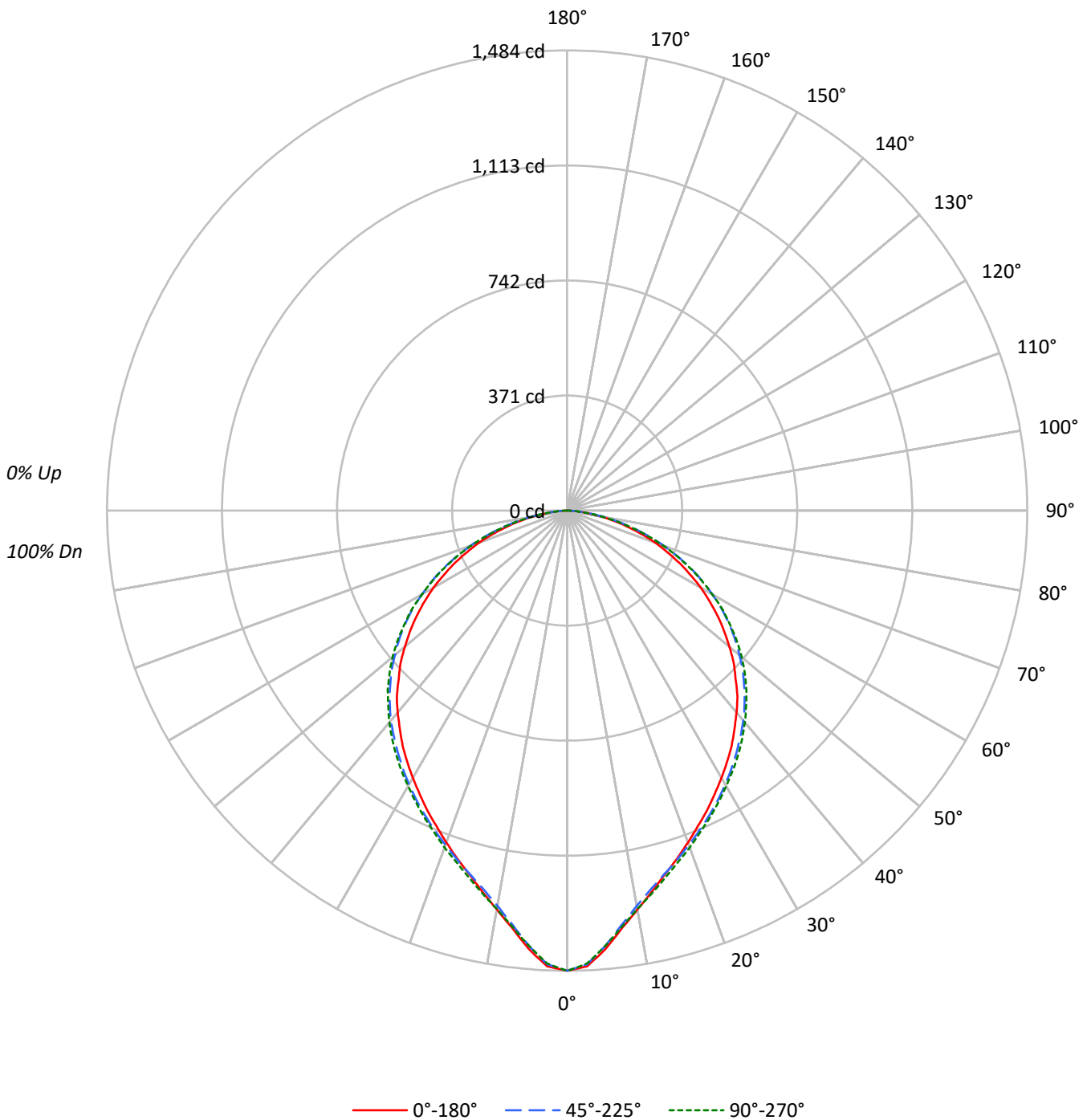
Lumens per Lamp: N/A
Luminaire Lumens: 3446.7 lumens
Efficiency: N/A
Efficacy: 79.8 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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°	3993	3993	3993
5°	3834	3807	3807
10°	3568	3536	3563
15°	3386	3380	3413
20°	3262	3285	3311
25°	3168	3220	3239
30°	3092	3168	3188
35°	3039	3128	3160
40°	2985	3106	3132
45°	2924	3076	3113
50°	2859	3038	3078
55°	2780	2994	3006
60°	2680	2912	2906
65°	2540	2800	2781
70°	2371	2611	2579
75°	2093	2313	2289
80°	1700	1884	1793
85°	1179	1201	1155



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.1	3.8
10°-20°	343.4	10.0
20°-30°	499.4	14.5
30°-40°	594.3	17.2
40°-50°	617.1	17.9
50°-60°	559.1	16.2
60°-70°	421.9	12.2
70°-80°	229.9	6.7
80°-90°	50.5	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°	974.0	28.3
0°-40°	1568.3	45.5
0°-60°	2744.5	79.6
0°-90°	3446.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3446.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1484	1484	1484	1484	1484	
5°	1419	1416	1409	1409	1409	132
15°	1215	1212	1213	1221	1225	343
25°	1067	1076	1084	1093	1091	492
35°	925	936	952	967	962	578
45°	768	782	808	817	818	594
55°	592	607	638	643	641	529
65°	399	410	440	439	437	394
75°	201	210	222	224	220	214
85°	38	38	39	38	37	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1483.9	1483.9	1483.9	1483.9	1483.9
2.5°	1470.9	1469.4	1464.6	1462.7	1462.3
5°	1419.3	1416.0	1409.3	1408.6	1409.3
7.5°	1357.8	1354.1	1347.4	1350.0	1353.3
10°	1305.9	1296.6	1294.0	1297.7	1304.0
12.5°	1259.5	1252.1	1249.9	1259.5	1264.0
15°	1215.4	1212.4	1213.2	1221.4	1225.0
17.5°	1177.2	1175.4	1180.2	1186.5	1188.4
20°	1139.0	1142.7	1147.2	1153.9	1156.1
22.5°	1101.6	1108.6	1116.1	1124.9	1122.0
25°	1067.1	1076.0	1084.5	1093.4	1090.8
27.5°	1030.4	1040.8	1052.6	1062.3	1058.6
30°	995.2	1008.1	1019.6	1031.5	1025.9
32.5°	960.3	972.6	986.3	1000.7	994.4
35°	925.1	936.2	952.2	966.6	961.8
37.5°	886.2	899.9	918.0	930.6	927.3
40°	849.8	862.4	884.3	892.5	891.7
42.5°	813.1	823.5	846.5	855.8	854.3
45°	768.3	782.0	808.3	817.2	817.9
47.5°	728.6	740.1	768.3	775.3	776.8
50°	683.0	697.4	725.6	734.1	735.3
52.5°	638.1	653.7	682.6	688.5	689.7
55°	592.5	606.6	638.1	642.6	640.7
57.5°	544.7	561.7	590.7	592.9	594.7
60°	497.9	512.8	541.0	543.9	539.9
62.5°	447.2	462.4	491.3	492.0	488.7
65°	398.9	410.4	439.7	439.0	436.8
67.5°	348.5	362.6	384.1	384.9	383.0
70°	301.4	311.1	331.8	332.2	327.8
72.5°	250.7	261.0	277.7	275.5	274.4
75°	201.3	209.5	222.5	224.0	220.2
77.5°	156.1	162.0	171.7	170.6	166.5
80°	109.7	114.6	121.6	120.1	115.7
82.5°	70.1	73.1	77.5	75.6	73.8
85°	38.2	38.5	38.9	38.5	37.4
87.5°	14.1	14.5	14.5	14.1	13.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)