

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: P488826

Luminaire Tested: **CLM-12-4-INS-P12125-LD4-3HI-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: P488826
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-LD4-3HI-40-120-EDD-90
Description: 1X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

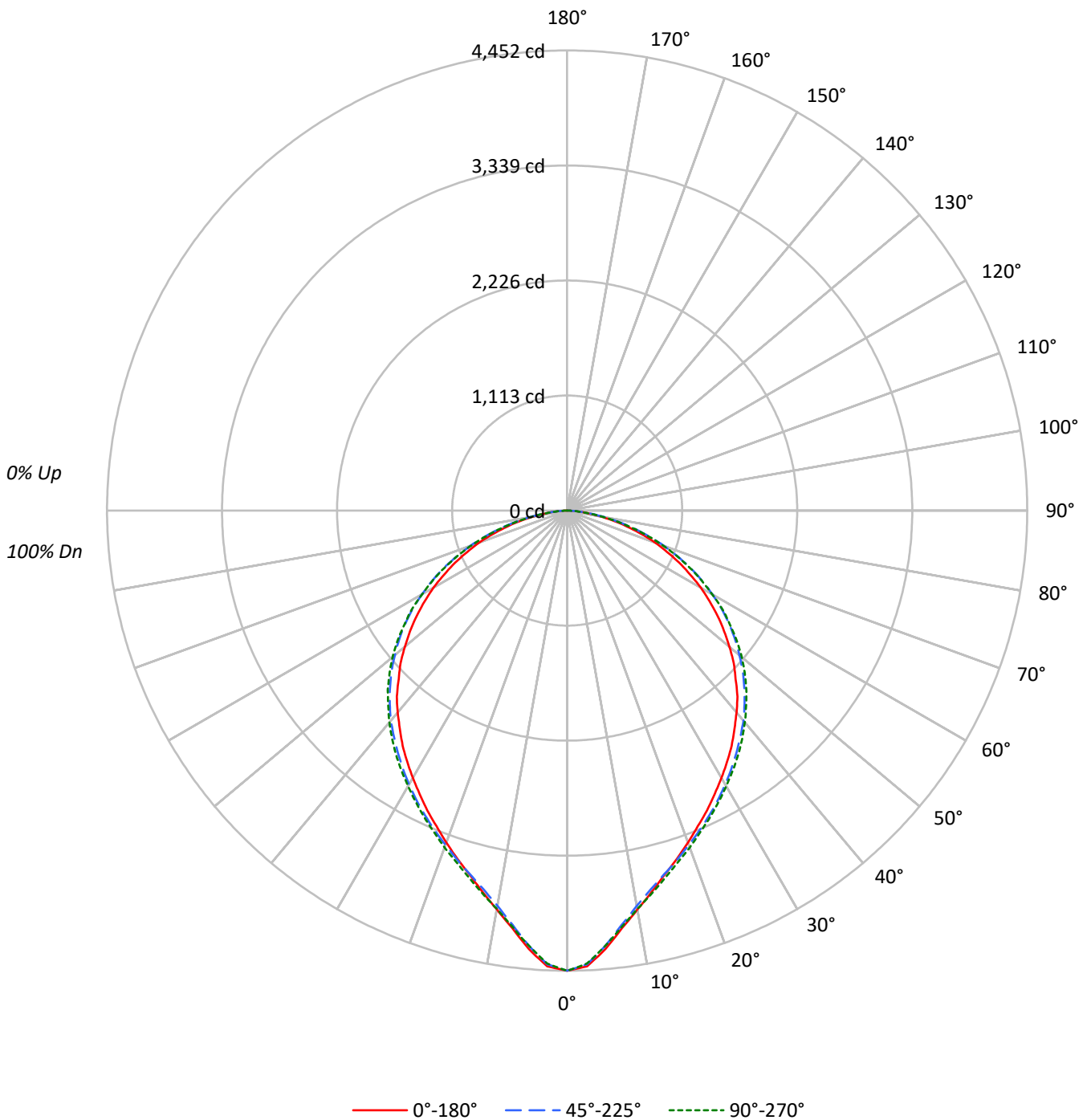
Lumens per Lamp: N/A
Luminaire Lumens: 10340.2 lumens
Efficiency: N/A
Efficacy: 79.8 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 129.6
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	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					100			
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84					84			
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70					70			
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59					59			
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51					51			
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44					44			
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38					38			
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34					34			
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30					30			
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27					27			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11979	11979	11979
5°	11502	11421	11421
10°	10705	10608	10690
15°	10158	10140	10239
20°	9785	9856	9932
25°	9505	9660	9717
30°	9277	9505	9564
35°	9117	9384	9479
40°	8956	9320	9398
45°	8771	9228	9338
50°	8578	9113	9234
55°	8339	8981	9018
60°	8040	8734	8717
65°	7621	8400	8343
70°	7115	7832	7737
75°	6280	6939	6869
80°	5102	5655	5377
85°	3538	3606	3467



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	393.4	3.8
10°-20°	1030.3	10.0
20°-30°	1498.3	14.5
30°-40°	1782.9	17.2
40°-50°	1851.3	17.9
50°-60°	1677.2	16.2
60°-70°	1265.6	12.2
70°-80°	689.6	6.7
80°-90°	151.5	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°	2922.0	28.3
0°-40°	4705.0	45.5
0°-60°	8233.5	79.6
0°-90°	10340.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10340.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4452	4452	4452	4452	4452	
5°	4258	4248	4228	4226	4228	395
15°	3646	3637	3640	3664	3675	1029
25°	3201	3228	3254	3280	3273	1475
35°	2775	2809	2856	2900	2886	1735
45°	2305	2346	2425	2452	2454	1782
55°	1778	1820	1914	1928	1922	1587
65°	1197	1231	1319	1317	1310	1183
75°	604	628	667	672	661	643
85°	115	116	117	116	112	145
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4451.6	4451.6	4451.6	4451.6	4451.6
2.5°	4412.7	4408.2	4393.8	4388.2	4387.0
5°	4258.1	4248.0	4228.0	4225.8	4228.0
7.5°	4073.4	4062.3	4042.3	4050.1	4060.1
10°	3917.7	3889.9	3882.0	3893.2	3912.1
12.5°	3778.6	3756.4	3749.7	3778.6	3792.0
15°	3646.2	3637.3	3639.6	3664.1	3675.2
17.5°	3531.7	3526.1	3540.6	3559.5	3565.1
20°	3417.1	3428.3	3441.6	3461.7	3468.3
22.5°	3304.8	3325.9	3348.2	3374.9	3366.0
25°	3201.4	3228.0	3253.6	3280.3	3272.6
27.5°	3091.2	3122.3	3158.0	3186.9	3175.7
30°	2985.5	3024.4	3059.0	3094.5	3077.9
32.5°	2881.0	2917.7	2958.8	3002.2	2983.3
35°	2775.3	2808.7	2856.5	2899.9	2885.5
37.5°	2658.5	2699.7	2754.1	2791.9	2782.0
40°	2549.5	2587.3	2653.0	2677.4	2675.2
42.5°	2439.4	2470.6	2539.5	2567.3	2562.8
45°	2304.8	2345.9	2424.9	2451.6	2453.8
47.5°	2185.8	2220.3	2304.8	2325.9	2330.3
50°	2049.0	2092.3	2176.9	2202.4	2205.8
52.5°	1914.3	1961.0	2047.8	2065.6	2069.0
55°	1777.5	1819.8	1914.3	1927.7	1922.2
57.5°	1634.1	1685.2	1772.0	1778.6	1784.2
60°	1493.8	1538.4	1622.9	1631.8	1619.6
62.5°	1341.5	1387.1	1473.9	1476.1	1466.0
65°	1196.8	1231.4	1319.2	1317.0	1310.3
67.5°	1045.6	1087.8	1152.4	1154.6	1149.1
70°	904.3	933.2	995.5	996.7	983.3
72.5°	752.0	783.1	833.1	826.5	823.2
75°	604.0	628.5	667.4	671.9	660.7
77.5°	468.3	486.1	515.0	511.7	499.4
80°	329.2	343.7	364.9	360.4	347.0
82.5°	210.2	219.2	232.5	226.9	221.3
85°	114.6	115.6	116.8	115.6	112.3
87.5°	42.3	43.4	43.4	42.3	39.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)