

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: P488758

Luminaire Tested: **CLM-12-4-INS-P12125-LD4-1LO-20-120-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: P488758
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-LD4-1LO-20-120-EDD-90
Description: 1X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

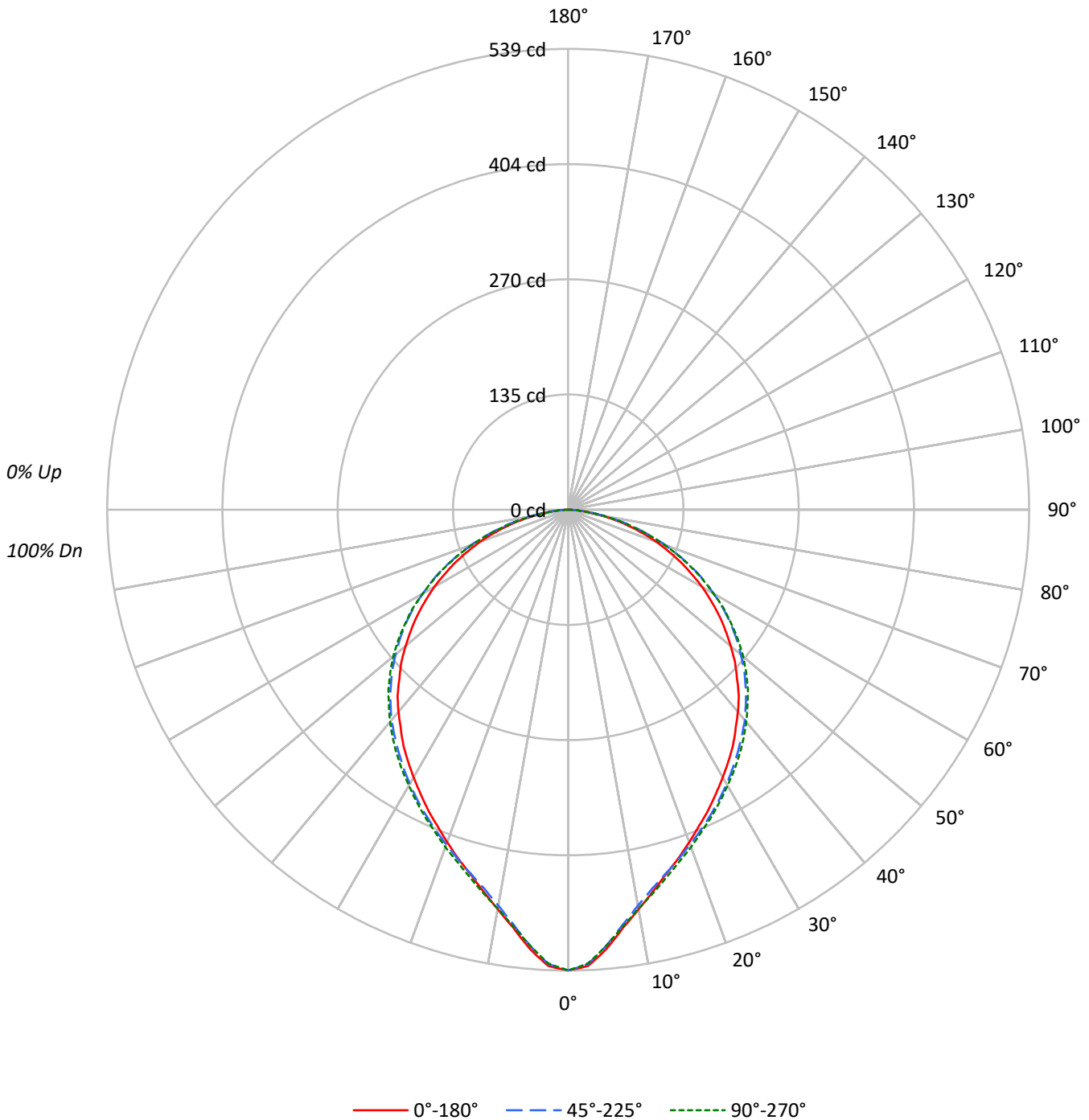
Lumens per Lamp: N/A
Luminaire Lumens: 1251.8 lumens
Efficiency: N/A
Efficacy: 53.5 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
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°	1450	1450	1450
5°	1392	1383	1383
10°	1296	1284	1294
15°	1230	1227	1239
20°	1185	1193	1202
25°	1151	1170	1176
30°	1123	1151	1158
35°	1104	1136	1147
40°	1084	1128	1138
45°	1062	1117	1131
50°	1038	1103	1118
55°	1010	1087	1092
60°	973	1058	1055
65°	923	1017	1010
70°	862	948	936
75°	760	840	832
80°	618	685	651
85°	429	435	420



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.6	3.8
10°-20°	124.7	10.0
20°-30°	181.4	14.5
30°-40°	215.8	17.2
40°-50°	224.1	17.9
50°-60°	203.0	16.2
60°-70°	153.2	12.2
70°-80°	83.5	6.7
80°-90°	18.3	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°	353.7	28.3
0°-40°	569.6	45.5
0°-60°	996.7	79.6
0°-90°	1251.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1251.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	539	539	539	539	539	
5°	516	514	512	512	512	48
15°	441	440	441	444	445	125
25°	388	391	394	397	396	179
35°	336	340	346	351	349	210
45°	279	284	294	297	297	216
55°	215	220	232	233	233	192
65°	145	149	160	159	159	143
75°	73	76	81	81	80	78
85°	14	14	14	14	14	17
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	538.9	538.9	538.9	538.9	538.9
2.5°	534.2	533.7	531.9	531.2	531.1
5°	515.5	514.3	511.8	511.6	511.8
7.5°	493.1	491.8	489.4	490.3	491.5
10°	474.3	470.9	470.0	471.3	473.6
12.5°	457.4	454.8	453.9	457.4	459.1
15°	441.4	440.3	440.6	443.6	444.9
17.5°	427.6	426.9	428.6	430.9	431.6
20°	413.7	415.0	416.6	419.1	419.9
22.5°	400.1	402.6	405.3	408.6	407.5
25°	387.6	390.8	393.9	397.1	396.2
27.5°	374.2	378.0	382.3	385.8	384.5
30°	361.4	366.1	370.3	374.6	372.6
32.5°	348.8	353.2	358.2	363.5	361.2
35°	336.0	340.0	345.8	351.1	349.3
37.5°	321.8	326.8	333.4	338.0	336.8
40°	308.6	313.2	321.2	324.1	323.9
42.5°	295.3	299.1	307.4	310.8	310.3
45°	279.0	284.0	293.6	296.8	297.1
47.5°	264.6	268.8	279.0	281.6	282.1
50°	248.0	253.3	263.5	266.6	267.0
52.5°	231.7	237.4	247.9	250.1	250.5
55°	215.2	220.3	231.7	233.4	232.7
57.5°	197.8	204.0	214.5	215.3	216.0
60°	180.8	186.2	196.5	197.5	196.1
62.5°	162.4	167.9	178.4	178.7	177.5
65°	144.9	149.1	159.7	159.4	158.6
67.5°	126.6	131.7	139.5	139.8	139.1
70°	109.5	113.0	120.5	120.7	119.0
72.5°	91.0	94.8	100.9	100.1	99.7
75°	73.1	76.1	80.8	81.3	80.0
77.5°	56.7	58.8	62.3	61.9	60.5
80°	39.9	41.6	44.2	43.6	42.0
82.5°	25.4	26.5	28.1	27.5	26.8
85°	13.9	14.0	14.1	14.0	13.6
87.5°	5.1	5.3	5.3	5.1	4.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)