

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: P488759

Luminaire Tested: **CLM-12-4-INS-P12125-LD4-1LO-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: P488759
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
Description: 1X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

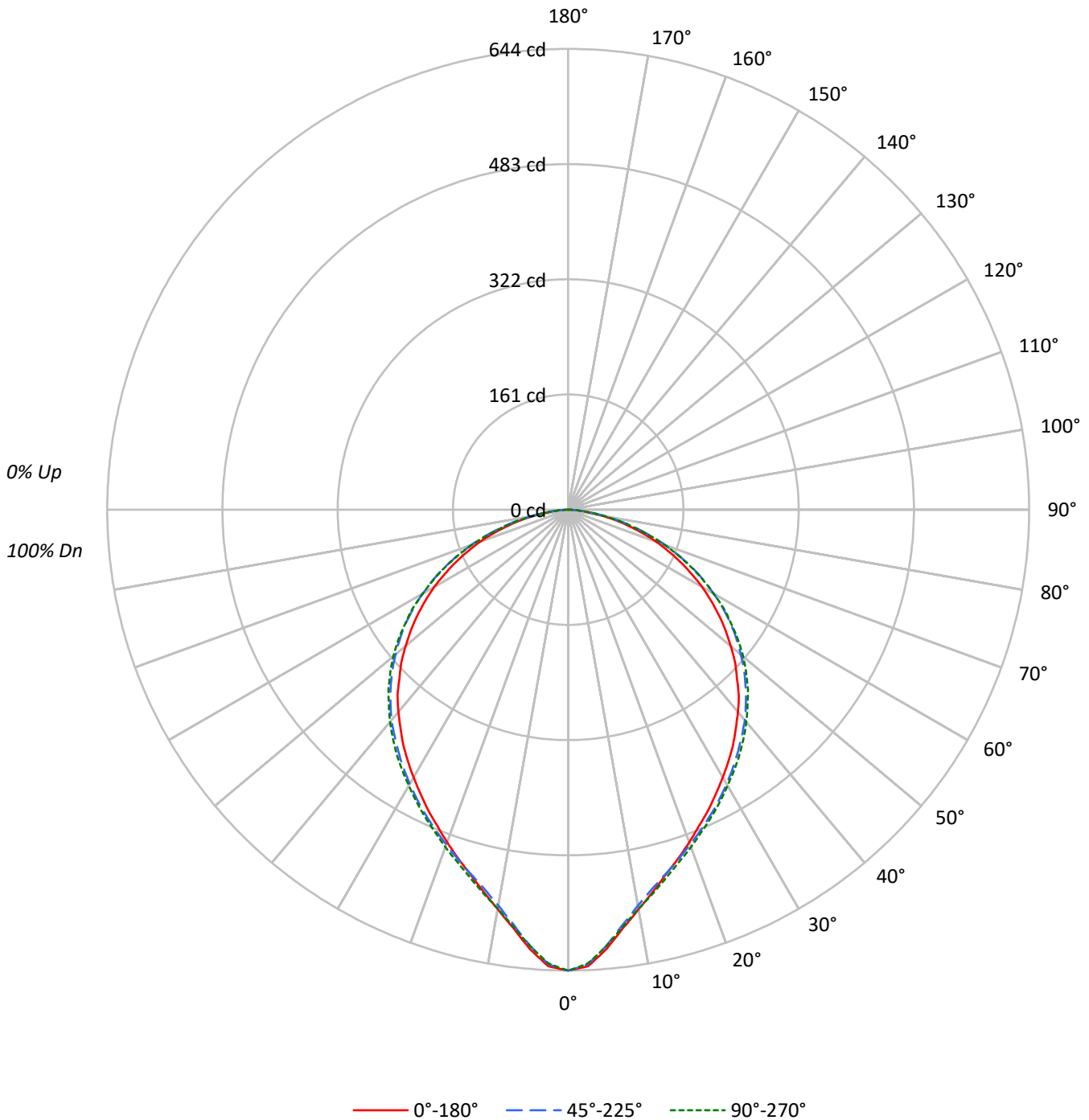
Lumens per Lamp: N/A
Luminaire Lumens: 1496.0 lumens
Efficiency: N/A
Efficacy: 63.9 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.23
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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	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°	1733	1733	1733
5°	1664	1652	1652
10°	1549	1535	1547
15°	1470	1467	1481
20°	1416	1426	1437
25°	1375	1398	1406
30°	1342	1375	1384
35°	1319	1358	1372
40°	1296	1348	1359
45°	1269	1335	1351
50°	1241	1318	1336
55°	1207	1300	1305
60°	1163	1264	1261
65°	1103	1216	1207
70°	1029	1133	1120
75°	909	1004	994
80°	738	818	778
85°	513	522	503



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.9	3.8
10°-20°	149.1	10.0
20°-30°	216.8	14.5
30°-40°	258.0	17.2
40°-50°	267.8	17.9
50°-60°	242.7	16.2
60°-70°	183.1	12.2
70°-80°	99.8	6.7
80°-90°	21.9	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°	422.8	28.3
0°-40°	680.7	45.5
0°-60°	1191.2	79.6
0°-90°	1496.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1496.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	644	644	644	644	644	
5°	616	615	612	611	612	57
15°	528	526	527	530	532	149
25°	463	467	471	475	474	213
35°	402	406	413	420	418	251
45°	334	339	351	355	355	258
55°	257	263	277	279	278	230
65°	173	178	191	190	190	171
75°	87	91	97	97	96	93
85°	17	17	17	17	16	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	644.1	644.1	644.1	644.1	644.1
2.5°	638.4	637.8	635.7	634.9	634.7
5°	616.0	614.6	611.7	611.4	611.7
7.5°	589.3	587.7	584.8	586.0	587.4
10°	566.8	562.8	561.6	563.3	566.0
12.5°	546.7	543.5	542.5	546.7	548.6
15°	527.5	526.2	526.6	530.1	531.7
17.5°	511.0	510.2	512.2	515.0	515.8
20°	494.4	496.0	497.9	500.8	501.8
22.5°	478.1	481.2	484.4	488.3	487.0
25°	463.2	467.0	470.7	474.6	473.5
27.5°	447.2	451.7	456.9	461.1	459.5
30°	431.9	437.6	442.6	447.7	445.3
32.5°	416.8	422.1	428.1	434.4	431.6
35°	401.5	406.4	413.3	419.6	417.5
37.5°	384.6	390.6	398.5	403.9	402.5
40°	368.9	374.3	383.8	387.4	387.0
42.5°	352.9	357.4	367.4	371.4	370.8
45°	333.5	339.4	350.8	354.7	355.0
47.5°	316.2	321.2	333.5	336.5	337.1
50°	296.4	302.7	314.9	318.6	319.1
52.5°	277.0	283.7	296.3	298.8	299.3
55°	257.2	263.3	277.0	278.9	278.1
57.5°	236.4	243.8	256.4	257.3	258.1
60°	216.1	222.6	234.8	236.1	234.3
62.5°	194.1	200.7	213.2	213.6	212.1
65°	173.2	178.2	190.9	190.5	189.6
67.5°	151.3	157.4	166.7	167.0	166.2
70°	130.8	135.0	144.0	144.2	142.3
72.5°	108.8	113.3	120.5	119.6	119.1
75°	87.4	90.9	96.6	97.2	95.6
77.5°	67.8	70.3	74.5	74.0	72.3
80°	47.6	49.7	52.8	52.1	50.2
82.5°	30.4	31.7	33.6	32.8	32.0
85°	16.6	16.7	16.9	16.7	16.3
87.5°	6.1	6.3	6.3	6.1	5.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)