

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: P488480

Luminaire Tested: **CLM-12-2-INS-P12125-LD4-1LO-50-120-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: P488480
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-LD4-1LO-50-120-EDD-90
Description: 1X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

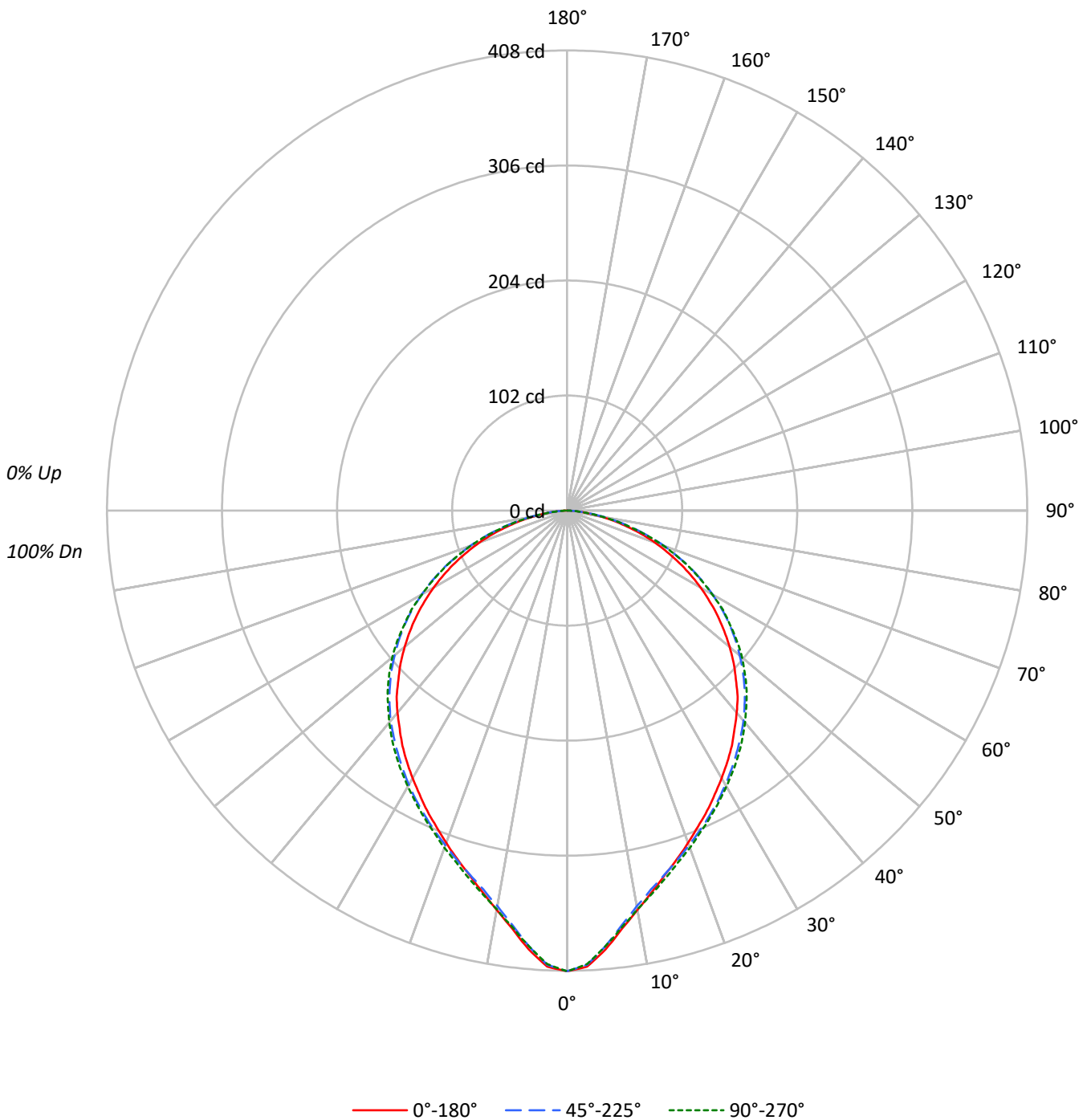
Lumens per Lamp: N/A
Luminaire Lumens: 948.6 lumens
Efficiency: N/A
Efficacy: 81.1 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
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°	2198	2198	2198
5°	2110	2096	2096
10°	1964	1946	1961
15°	1864	1860	1879
20°	1796	1808	1822
25°	1744	1773	1783
30°	1702	1744	1755
35°	1673	1722	1739
40°	1643	1710	1724
45°	1609	1694	1713
50°	1574	1672	1695
55°	1530	1648	1654
60°	1475	1603	1600
65°	1398	1541	1531
70°	1306	1437	1419
75°	1152	1273	1260
80°	936	1038	986
85°	648	661	636



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.1	3.8
10°-20°	94.5	10.0
20°-30°	137.5	14.5
30°-40°	163.6	17.2
40°-50°	169.8	17.9
50°-60°	153.9	16.2
60°-70°	116.1	12.2
70°-80°	63.2	6.7
80°-90°	13.9	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°	268.1	28.3
0°-40°	431.6	45.5
0°-60°	755.3	79.6
0°-90°	948.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	948.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	408	408	408	408	408	
5°	391	390	388	388	388	36
15°	334	334	334	336	337	94
25°	294	296	298	301	300	135
35°	255	258	262	266	265	159
45°	211	215	222	225	225	163
55°	163	167	176	177	176	146
65°	110	113	121	121	120	109
75°	55	58	61	62	61	59
85°	10	11	11	11	10	13
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	408.4	408.4	408.4	408.4	408.4
2.5°	404.8	404.4	403.1	402.6	402.5
5°	390.6	389.7	387.9	387.7	387.9
7.5°	373.7	372.7	370.8	371.5	372.5
10°	359.4	356.9	356.1	357.2	358.9
12.5°	346.6	344.6	344.0	346.6	347.9
15°	334.5	333.7	333.9	336.1	337.2
17.5°	324.0	323.5	324.8	326.5	327.1
20°	313.5	314.5	315.7	317.6	318.2
22.5°	303.2	305.1	307.2	309.6	308.8
25°	293.7	296.1	298.5	300.9	300.2
27.5°	283.6	286.4	289.7	292.4	291.3
30°	273.9	277.5	280.6	283.9	282.4
32.5°	264.3	267.7	271.4	275.4	273.7
35°	254.6	257.7	262.1	266.0	264.7
37.5°	243.9	247.7	252.7	256.1	255.2
40°	233.9	237.4	243.4	245.6	245.4
42.5°	223.8	226.6	233.0	235.5	235.1
45°	211.4	215.2	222.5	224.9	225.1
47.5°	200.5	203.7	211.4	213.4	213.8
50°	188.0	192.0	199.7	202.0	202.4
52.5°	175.6	179.9	187.9	189.5	189.8
55°	163.1	166.9	175.6	176.8	176.3
57.5°	149.9	154.6	162.6	163.2	163.7
60°	137.0	141.1	148.9	149.7	148.6
62.5°	123.1	127.2	135.2	135.4	134.5
65°	109.8	113.0	121.0	120.8	120.2
67.5°	95.9	99.8	105.7	105.9	105.4
70°	83.0	85.6	91.3	91.4	90.2
72.5°	69.0	71.8	76.4	75.8	75.5
75°	55.4	57.7	61.2	61.6	60.6
77.5°	43.0	44.6	47.2	46.9	45.8
80°	30.2	31.5	33.5	33.1	31.8
82.5°	19.3	20.1	21.3	20.8	20.3
85°	10.5	10.6	10.7	10.6	10.3
87.5°	3.9	4.0	4.0	3.9	3.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)