

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: P489245

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-1STD-35-120-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: P489245
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-24-2-INS-P12125-LD4-1STD-35-120-EDD
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

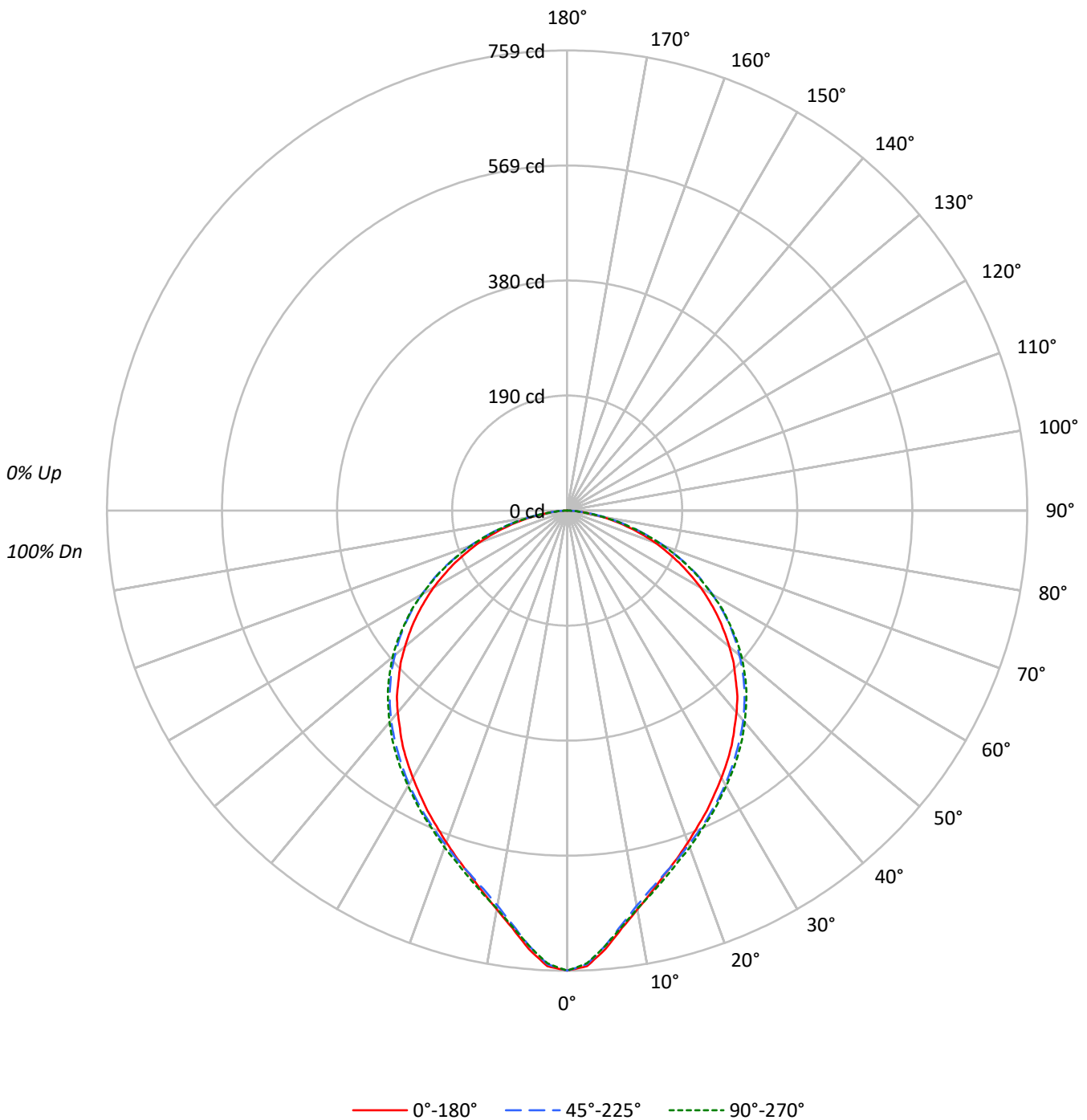
Lumens per Lamp: N/A
Luminaire Lumens: 1762.2 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.23
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 16.6
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	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°	2042	2042	2042
5°	1960	1946	1946
10°	1824	1808	1822
15°	1731	1728	1745
20°	1668	1680	1693
25°	1620	1646	1656
30°	1581	1620	1630
35°	1554	1599	1615
40°	1526	1588	1601
45°	1495	1573	1592
50°	1462	1553	1574
55°	1421	1530	1537
60°	1370	1489	1485
65°	1299	1431	1422
70°	1212	1335	1319
75°	1070	1182	1171
80°	869	964	916
85°	602	614	590



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.0	3.8
10°-20°	175.6	10.0
20°-30°	255.3	14.5
30°-40°	303.9	17.2
40°-50°	315.5	17.9
50°-60°	285.8	16.2
60°-70°	215.7	12.2
70°-80°	117.5	6.7
80°-90°	25.8	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°	498.0	28.3
0°-40°	801.8	45.5
0°-60°	1403.2	79.6
0°-90°	1762.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1762.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	759	759	759	759	759	
5°	726	724	720	720	720	67
15°	621	620	620	624	626	175
25°	546	550	554	559	558	251
35°	473	479	487	494	492	296
45°	393	400	413	418	418	304
55°	303	310	326	328	328	270
65°	204	210	225	224	223	202
75°	103	107	114	114	113	110
85°	20	20	20	20	19	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	758.7	758.7	758.7	758.7	758.7
2.5°	752.0	751.3	748.8	747.8	747.6
5°	725.7	724.0	720.5	720.2	720.5
7.5°	694.2	692.3	688.9	690.2	691.9
10°	667.7	662.9	661.6	663.5	666.7
12.5°	644.0	640.2	639.0	644.0	646.2
15°	621.4	619.9	620.3	624.4	626.3
17.5°	601.9	600.9	603.4	606.6	607.6
20°	582.4	584.3	586.5	589.9	591.1
22.5°	563.2	566.8	570.6	575.2	573.6
25°	545.6	550.1	554.5	559.0	557.7
27.5°	526.8	532.1	538.2	543.1	541.2
30°	508.8	515.4	521.3	527.4	524.5
32.5°	491.0	497.2	504.3	511.6	508.4
35°	473.0	478.7	486.8	494.2	491.7
37.5°	453.1	460.1	469.4	475.8	474.1
40°	434.5	440.9	452.1	456.3	455.9
42.5°	415.7	421.0	432.8	437.5	436.8
45°	392.8	399.8	413.3	417.8	418.2
47.5°	372.5	378.4	392.8	396.4	397.1
50°	349.2	356.6	371.0	375.3	375.9
52.5°	326.2	334.2	349.0	352.0	352.6
55°	302.9	310.1	326.2	328.5	327.6
57.5°	278.5	287.2	302.0	303.1	304.1
60°	254.6	262.2	276.6	278.1	276.0
62.5°	228.6	236.4	251.2	251.6	249.8
65°	204.0	209.9	224.8	224.4	223.3
67.5°	178.2	185.4	196.4	196.8	195.8
70°	154.1	159.0	169.7	169.9	167.6
72.5°	128.2	133.5	142.0	140.9	140.3
75°	102.9	107.1	113.7	114.5	112.6
77.5°	79.8	82.8	87.8	87.2	85.1
80°	56.1	58.6	62.2	61.4	59.1
82.5°	35.8	37.4	39.6	38.7	37.7
85°	19.5	19.7	19.9	19.7	19.1
87.5°	7.2	7.4	7.4	7.2	6.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)