

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: P489243

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-1STD-30-120-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: P489243
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-30-120-EDD
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

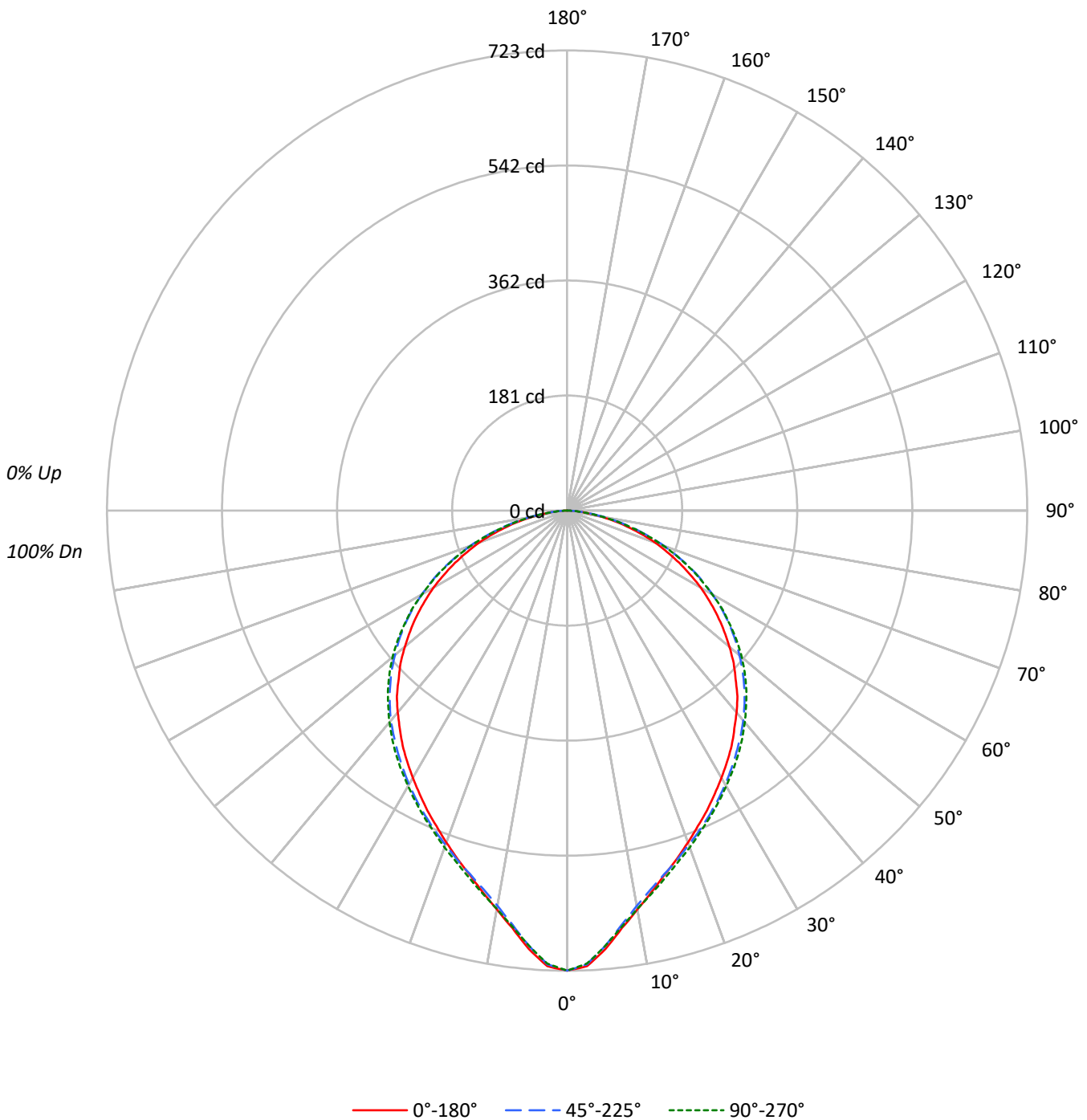
Lumens per Lamp: N/A
Luminaire Lumens: 1679.0 lumens
Efficiency: N/A
Efficacy: 101.1 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 16.6
Input Voltage (V): NR
Input Current (A_{in}): 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			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°	1945	1945	1945
5°	1868	1854	1854
10°	1738	1722	1736
15°	1650	1646	1663
20°	1589	1600	1613
25°	1543	1569	1578
30°	1506	1543	1553
35°	1480	1524	1539
40°	1454	1513	1526
45°	1424	1498	1516
50°	1393	1480	1500
55°	1354	1458	1464
60°	1306	1418	1415
65°	1237	1364	1355
70°	1155	1272	1257
75°	1020	1127	1116
80°	829	917	872
85°	574	587	562



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.9	3.8
10°-20°	167.3	10.0
20°-30°	243.3	14.5
30°-40°	289.5	17.2
40°-50°	300.6	17.9
50°-60°	272.3	16.2
60°-70°	205.5	12.2
70°-80°	112.0	6.7
80°-90°	24.6	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
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0°-30°	474.5	28.3
0°-40°	764.0	45.5
0°-60°	1336.9	79.6
0°-90°	1679.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1679.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	723	723	723	723	723	
5°	691	690	686	686	686	64
15°	592	591	591	595	597	167
25°	520	524	528	533	531	240
35°	451	456	464	471	468	282
45°	374	381	394	398	398	289
55°	289	296	311	313	312	258
65°	194	200	214	214	213	192
75°	98	102	108	109	107	104
85°	19	19	19	19	18	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	722.8	722.8	722.8	722.8	722.8
2.5°	716.5	715.8	713.4	712.5	712.4
5°	691.4	689.8	686.5	686.2	686.5
7.5°	661.4	659.6	656.4	657.6	659.3
10°	636.1	631.6	630.3	632.2	635.2
12.5°	613.6	609.9	608.9	613.6	615.7
15°	592.1	590.6	591.0	595.0	596.8
17.5°	573.5	572.6	574.9	578.0	578.9
20°	554.9	556.7	558.8	562.1	563.2
22.5°	536.6	540.0	543.7	548.0	546.6
25°	519.8	524.2	528.3	532.6	531.4
27.5°	501.9	507.0	512.8	517.5	515.7
30°	484.8	491.1	496.7	502.5	499.8
32.5°	467.8	473.8	480.4	487.5	484.4
35°	450.6	456.1	463.8	470.9	468.5
37.5°	431.7	438.4	447.2	453.3	451.7
40°	414.0	420.1	430.8	434.8	434.4
42.5°	396.1	401.2	412.4	416.9	416.1
45°	374.2	380.9	393.7	398.1	398.4
47.5°	354.9	360.5	374.2	377.7	378.4
50°	332.7	339.7	353.5	357.6	358.2
52.5°	310.8	318.4	332.5	335.4	336.0
55°	288.6	295.5	310.8	313.0	312.1
57.5°	265.3	273.6	287.7	288.8	289.7
60°	242.6	249.8	263.5	265.0	263.0
62.5°	217.8	225.2	239.3	239.7	238.0
65°	194.3	199.9	214.2	213.9	212.8
67.5°	169.8	176.6	187.1	187.5	186.6
70°	146.8	151.5	161.7	161.8	159.7
72.5°	122.1	127.2	135.3	134.2	133.7
75°	98.1	102.1	108.4	109.1	107.3
77.5°	76.0	78.9	83.6	83.1	81.1
80°	53.5	55.8	59.2	58.5	56.3
82.5°	34.1	35.6	37.8	36.8	35.9
85°	18.6	18.8	19.0	18.8	18.2
87.5°	6.9	7.0	7.0	6.9	6.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)