

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: P489216

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-1HI-27-120-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: P489216
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-LD4-1HI-27-120-EDD-90
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

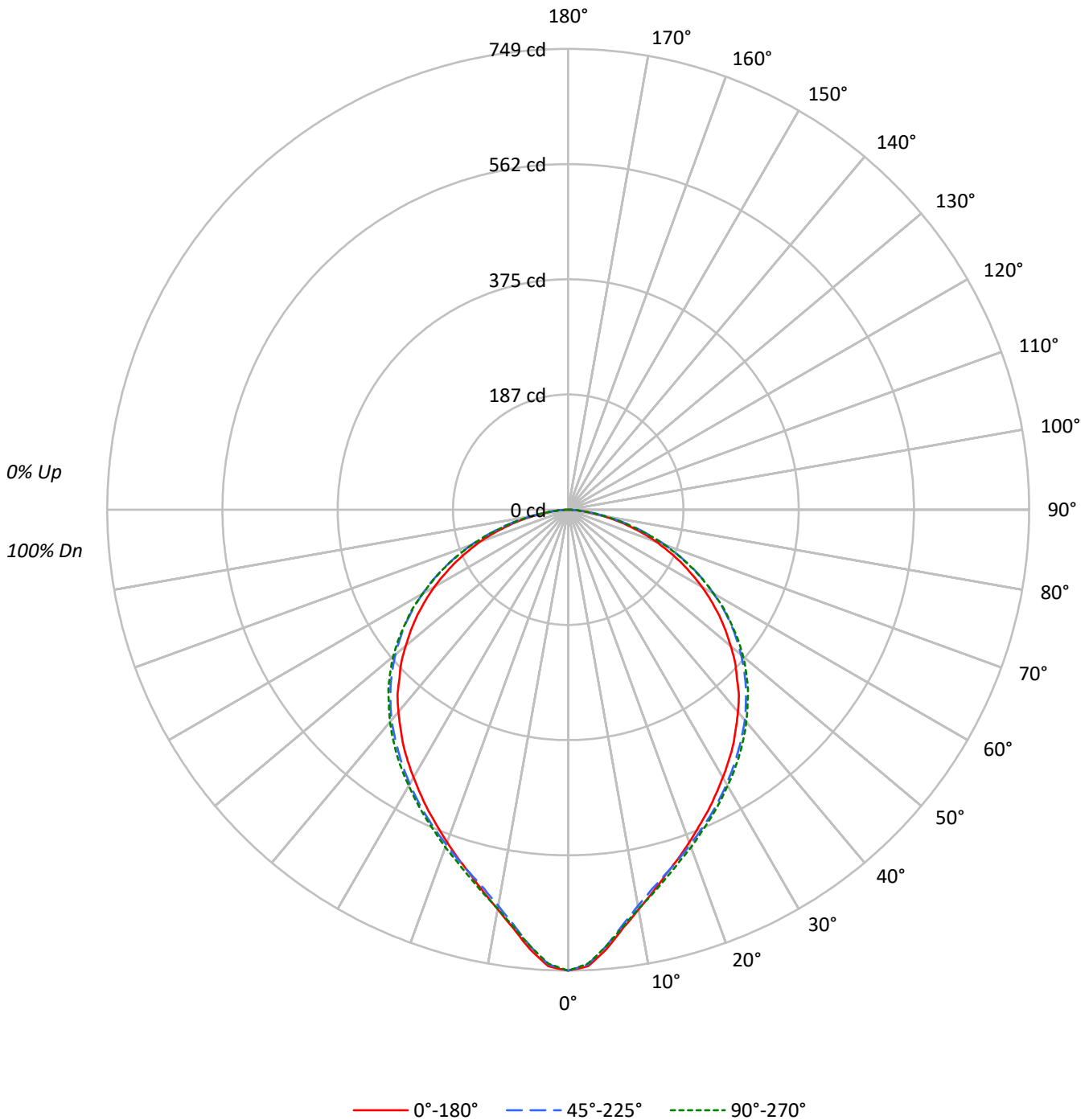
Lumens per Lamp: N/A
Luminaire Lumens: 1740.3 lumens
Efficiency: N/A
Efficacy: 80.6 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 21.6
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°	2016	2016	2016
5°	1936	1922	1922
10°	1802	1785	1799
15°	1710	1707	1723
20°	1647	1659	1672
25°	1600	1626	1635
30°	1561	1600	1610
35°	1534	1579	1595
40°	1507	1568	1581
45°	1476	1553	1572
50°	1443	1534	1554
55°	1404	1512	1518
60°	1353	1470	1467
65°	1282	1414	1404
70°	1197	1319	1302
75°	1057	1168	1156
80°	859	951	905
85°	596	608	584



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.2	3.8
10°-20°	173.4	10.0
20°-30°	252.2	14.5
30°-40°	300.1	17.2
40°-50°	311.6	17.9
50°-60°	282.3	16.2
60°-70°	213.0	12.2
70°-80°	116.1	6.7
80°-90°	25.5	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°	491.8	28.3
0°-40°	791.9	45.5
0°-60°	1385.7	79.6
0°-90°	1740.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1740.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	749	749	749	749	749	
5°	717	715	712	711	712	67
15°	614	612	613	617	618	173
25°	539	543	548	552	551	248
35°	467	473	481	488	486	292
45°	388	395	408	413	413	300
55°	299	306	322	324	324	267
65°	201	207	222	222	220	199
75°	102	106	112	113	111	108
85°	19	20	20	20	19	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	749.2	749.2	749.2	749.2	749.2
2.5°	742.7	741.9	739.5	738.5	738.4
5°	716.7	715.0	711.6	711.2	711.6
7.5°	685.6	683.7	680.3	681.6	683.3
10°	659.4	654.7	653.4	655.2	658.4
12.5°	636.0	632.2	631.1	636.0	638.2
15°	613.7	612.2	612.6	616.7	618.5
17.5°	594.4	593.5	595.9	599.1	600.0
20°	575.1	577.0	579.2	582.6	583.7
22.5°	556.2	559.8	563.5	568.0	566.5
25°	538.8	543.3	547.6	552.1	550.8
27.5°	520.3	525.5	531.5	536.4	534.5
30°	502.5	509.0	514.8	520.8	518.0
32.5°	484.9	491.1	498.0	505.3	502.1
35°	467.1	472.7	480.8	488.1	485.6
37.5°	447.4	454.4	463.5	469.9	468.2
40°	429.1	435.5	446.5	450.6	450.2
42.5°	410.6	415.8	427.4	432.1	431.3
45°	387.9	394.8	408.1	412.6	413.0
47.5°	367.9	373.7	387.9	391.5	392.2
50°	344.8	352.2	366.4	370.7	371.2
52.5°	322.2	330.0	344.7	347.6	348.2
55°	299.2	306.3	322.2	324.4	323.5
57.5°	275.0	283.6	298.2	299.4	300.3
60°	251.4	258.9	273.1	274.6	272.6
62.5°	225.8	233.5	248.1	248.4	246.7
65°	201.4	207.2	222.0	221.7	220.5
67.5°	176.0	183.1	194.0	194.3	193.4
70°	152.2	157.1	167.6	167.7	165.5
72.5°	126.6	131.8	140.2	139.1	138.5
75°	101.7	105.8	112.3	113.1	111.2
77.5°	78.8	81.8	86.7	86.1	84.1
80°	55.4	57.8	61.4	60.7	58.4
82.5°	35.4	36.9	39.1	38.2	37.3
85°	19.3	19.5	19.7	19.5	18.9
87.5°	7.1	7.3	7.3	7.1	6.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)