

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: P489242

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-1STD-30-120-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: P489242
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-90
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

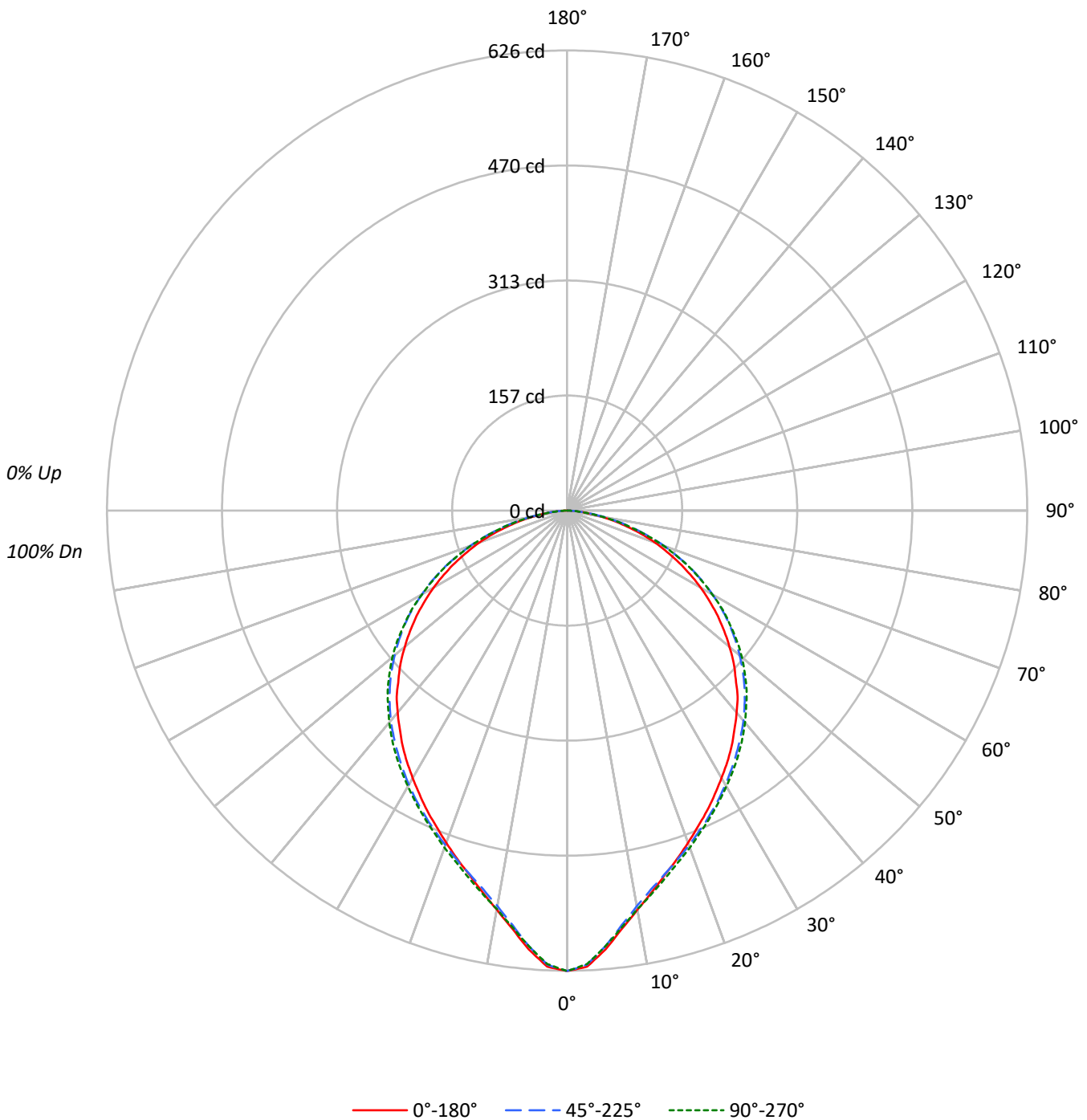
Lumens per Lamp: N/A
Luminaire Lumens: 1455.1 lumens
Efficiency: N/A
Efficacy: 87.7 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 16.6
Input Voltage (V): NR
Input Current (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	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					100			
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84					84			
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70					70			
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59					59			
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51					51			
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44					44			
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38					38			
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34					34			
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30					30			
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27					27			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1686	1686	1686
5°	1619	1607	1607
10°	1506	1493	1504
15°	1429	1427	1441
20°	1377	1387	1398
25°	1338	1360	1367
30°	1305	1338	1346
35°	1283	1321	1334
40°	1260	1311	1323
45°	1234	1298	1314
50°	1207	1282	1299
55°	1173	1264	1269
60°	1131	1229	1227
65°	1072	1182	1174
70°	1002	1102	1089
75°	884	976	967
80°	717	795	756
85°	497	506	488



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.4	3.8
10°-20°	145.0	10.0
20°-30°	210.9	14.5
30°-40°	250.9	17.2
40°-50°	260.5	17.9
50°-60°	236.0	16.2
60°-70°	178.1	12.2
70°-80°	97.0	6.7
80°-90°	21.3	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°	411.2	28.3
0°-40°	662.1	45.5
0°-60°	1158.6	79.6
0°-90°	1455.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1455.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	626	626	626	626	626	
5°	599	598	595	595	595	56
15°	513	512	512	516	517	145
25°	450	454	458	462	460	208
35°	390	395	402	408	406	244
45°	324	330	341	345	345	251
55°	250	256	269	271	270	223
65°	168	173	186	185	184	166
75°	85	88	94	95	93	91
85°	16	16	16	16	16	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	626.4	626.4	626.4	626.4	626.4
2.5°	621.0	620.3	618.3	617.5	617.4
5°	599.2	597.8	595.0	594.7	595.0
7.5°	573.2	571.7	568.8	569.9	571.3
10°	551.3	547.4	546.3	547.9	550.5
12.5°	531.7	528.6	527.7	531.7	533.6
15°	513.1	511.9	512.2	515.6	517.2
17.5°	497.0	496.2	498.2	500.9	501.7
20°	480.9	482.4	484.3	487.1	488.1
22.5°	465.1	468.0	471.2	474.9	473.7
25°	450.5	454.3	457.9	461.6	460.5
27.5°	435.0	439.4	444.4	448.5	446.9
30°	420.1	425.6	430.5	435.5	433.1
32.5°	405.4	410.6	416.4	422.5	419.8
35°	390.5	395.2	402.0	408.1	406.0
37.5°	374.1	379.9	387.6	392.9	391.5
40°	358.8	364.1	373.3	376.8	376.5
42.5°	343.3	347.7	357.4	361.3	360.6
45°	324.3	330.1	341.2	345.0	345.3
47.5°	307.6	312.4	324.3	327.3	327.9
50°	288.3	294.4	306.3	309.9	310.4
52.5°	269.4	276.0	288.2	290.7	291.2
55°	250.1	256.1	269.4	271.3	270.5
57.5°	229.9	237.1	249.4	250.3	251.1
60°	210.2	216.5	228.4	229.6	227.9
62.5°	188.8	195.2	207.4	207.7	206.3
65°	168.4	173.3	185.6	185.3	184.4
67.5°	147.1	153.1	162.2	162.5	161.7
70°	127.3	131.3	140.1	140.3	138.4
72.5°	105.8	110.2	117.2	116.3	115.8
75°	85.0	88.4	93.9	94.6	93.0
77.5°	65.9	68.4	72.5	72.0	70.3
80°	46.3	48.4	51.3	50.7	48.8
82.5°	29.6	30.8	32.7	31.9	31.1
85°	16.1	16.3	16.4	16.3	15.8
87.5°	5.9	6.1	6.1	5.9	5.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)