

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: P489228

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-1LO-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: P489228
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-LD4-1LO-27-120-EDD-90
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

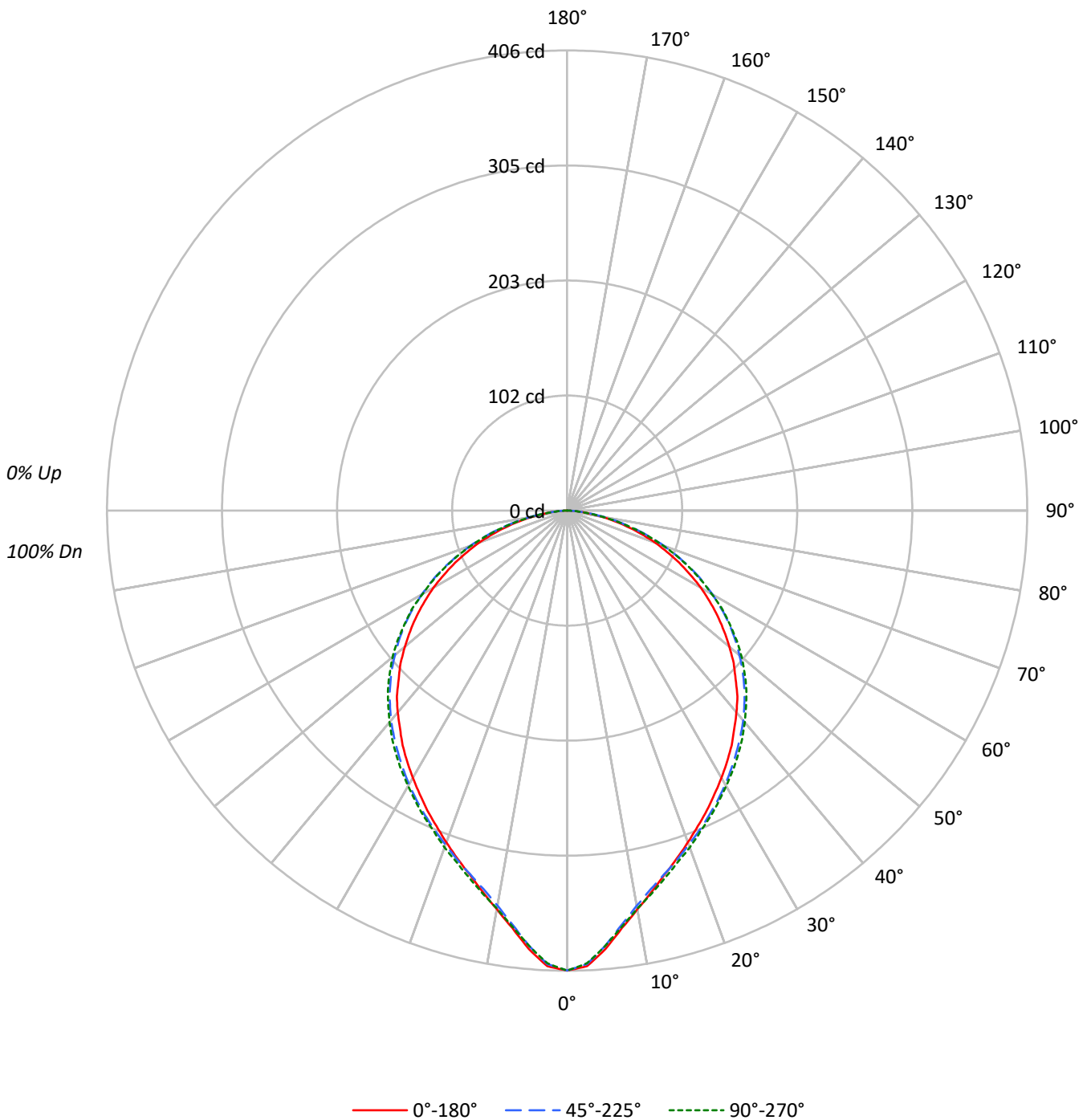
Lumens per Lamp: N/A
Luminaire Lumens: 942.6 lumens
Efficiency: N/A
Efficacy: 80.6 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.23
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	1092	1092	1092
5°	1049	1041	1041
10°	976	967	974
15°	926	924	933
20°	892	898	905
25°	866	881	886
30°	846	867	872
35°	831	855	864
40°	816	849	857
45°	800	841	851
50°	782	831	842
55°	760	819	822
60°	733	796	794
65°	695	766	760
70°	648	714	705
75°	573	632	626
80°	465	516	490
85°	321	327	315



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.9	3.8
10°-20°	93.9	10.0
20°-30°	136.6	14.5
30°-40°	162.5	17.2
40°-50°	168.8	17.9
50°-60°	152.9	16.2
60°-70°	115.4	12.2
70°-80°	62.8	6.7
80°-90°	13.8	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°	266.4	28.3
0°-40°	428.9	45.5
0°-60°	750.6	79.6
0°-90°	942.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	942.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	406	406	406	406	406	
5°	388	387	385	385	385	36
15°	332	332	332	334	335	94
25°	292	294	297	299	298	134
35°	253	256	260	264	263	158
45°	210	214	221	224	224	162
55°	162	166	174	176	175	145
65°	109	112	120	120	119	108
75°	55	57	61	61	60	59
85°	10	10	11	10	10	13
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	405.8	405.8	405.8	405.8	405.8
2.5°	402.3	401.8	400.5	400.0	399.9
5°	388.2	387.2	385.4	385.2	385.4
7.5°	371.3	370.3	368.5	369.2	370.1
10°	357.1	354.6	353.9	354.9	356.6
12.5°	344.5	342.4	341.8	344.5	345.7
15°	332.4	331.6	331.8	334.0	335.0
17.5°	321.9	321.4	322.8	324.5	325.0
20°	311.5	312.5	313.7	315.6	316.2
22.5°	301.3	303.2	305.2	307.6	306.8
25°	291.8	294.3	296.6	299.0	298.3
27.5°	281.8	284.6	287.9	290.5	289.5
30°	272.2	275.7	278.9	282.1	280.6
32.5°	262.6	266.0	269.7	273.7	272.0
35°	253.0	256.0	260.4	264.4	263.0
37.5°	242.3	246.1	251.1	254.5	253.6
40°	232.4	235.9	241.8	244.1	243.9
42.5°	222.4	225.2	231.5	234.0	233.6
45°	210.1	213.9	221.1	223.5	223.7
47.5°	199.3	202.4	210.1	212.0	212.4
50°	186.8	190.7	198.4	200.8	201.1
52.5°	174.5	178.8	186.7	188.3	188.6
55°	162.0	165.9	174.5	175.7	175.2
57.5°	149.0	153.6	161.5	162.1	162.6
60°	136.2	140.2	147.9	148.8	147.6
62.5°	122.3	126.4	134.4	134.6	133.6
65°	109.1	112.2	120.3	120.1	119.4
67.5°	95.3	99.2	105.1	105.3	104.8
70°	82.4	85.1	90.8	90.9	89.6
72.5°	68.5	71.4	75.9	75.3	75.0
75°	55.1	57.3	60.8	61.2	60.2
77.5°	42.7	44.3	46.9	46.6	45.5
80°	30.0	31.3	33.3	32.9	31.6
82.5°	19.2	20.0	21.2	20.7	20.2
85°	10.4	10.5	10.6	10.5	10.2
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)