

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: P489282

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-2STD-40-120-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: P489282
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-LD4-2STD-40-120-EDD-90
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

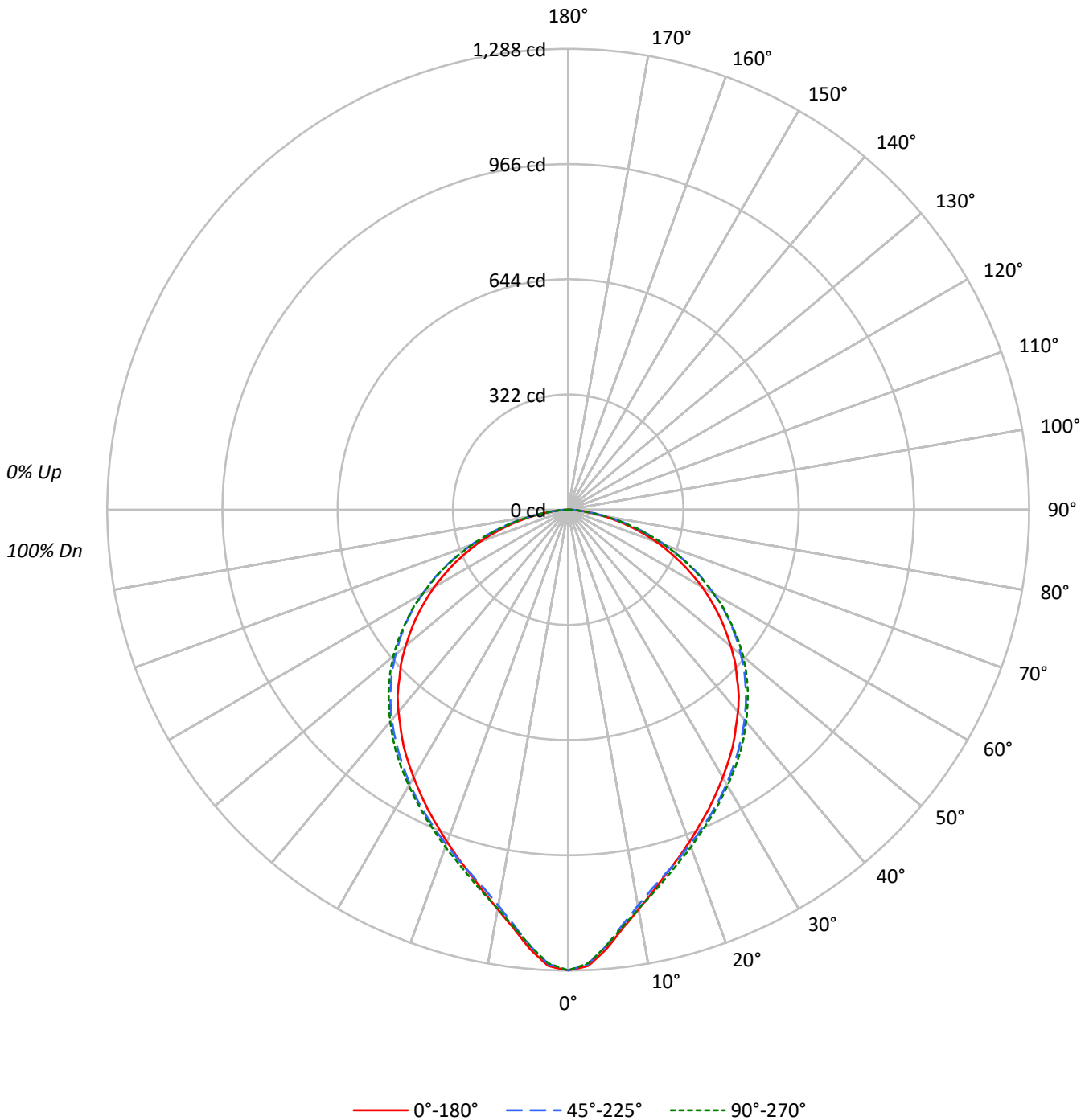
Lumens per Lamp: N/A
Luminaire Lumens: 2991.0 lumens
Efficiency: N/A
Efficacy: 89.8 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
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°	3465	3465	3465
5°	3327	3304	3304
10°	3096	3068	3092
15°	2938	2933	2962
20°	2830	2851	2873
25°	2749	2794	2811
30°	2683	2749	2766
35°	2637	2714	2742
40°	2591	2696	2718
45°	2537	2669	2701
50°	2481	2636	2671
55°	2412	2598	2609
60°	2326	2526	2521
65°	2204	2430	2413
70°	2058	2266	2238
75°	1816	2008	1987
80°	1475	1635	1556
85°	1022	1044	1003



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.8	3.8
10°-20°	298.0	10.0
20°-30°	433.4	14.5
30°-40°	515.7	17.2
40°-50°	535.5	17.9
50°-60°	485.1	16.2
60°-70°	366.1	12.2
70°-80°	199.5	6.7
80°-90°	43.8	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°	845.2	28.3
0°-40°	1361.0	45.5
0°-60°	2381.6	79.6
0°-90°	2991.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2991.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1288	1288	1288	1288	1288	
5°	1232	1229	1223	1222	1223	114
15°	1055	1052	1053	1060	1063	298
25°	926	934	941	949	947	427
35°	803	812	826	839	835	502
45°	667	679	701	709	710	515
55°	514	526	554	558	556	459
65°	346	356	382	381	379	342
75°	175	182	193	194	191	186
85°	33	33	34	33	32	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1287.7	1287.7	1287.7	1287.7	1287.7
2.5°	1276.4	1275.1	1270.9	1269.3	1269.0
5°	1231.7	1228.8	1223.0	1222.4	1223.0
7.5°	1178.3	1175.0	1169.3	1171.5	1174.4
10°	1133.2	1125.2	1122.9	1126.1	1131.6
12.5°	1093.0	1086.6	1084.6	1093.0	1096.9
15°	1054.7	1052.1	1052.8	1059.9	1063.1
17.5°	1021.6	1020.0	1024.2	1029.6	1031.2
20°	988.4	991.7	995.5	1001.3	1003.2
22.5°	955.9	962.0	968.5	976.2	973.6
25°	926.0	933.7	941.1	948.9	946.6
27.5°	894.2	903.2	913.5	921.8	918.6
30°	863.6	874.8	884.8	895.1	890.3
32.5°	833.4	844.0	855.9	868.4	863.0
35°	802.8	812.4	826.3	838.8	834.6
37.5°	769.0	780.9	796.7	807.6	804.7
40°	737.5	748.4	767.4	774.5	773.8
42.5°	705.6	714.6	734.6	742.6	741.3
45°	666.7	678.6	701.4	709.2	709.8
47.5°	632.3	642.2	666.7	672.8	674.1
50°	592.7	605.2	629.7	637.1	638.1
52.5°	553.7	567.2	592.3	597.5	598.5
55°	514.2	526.4	553.7	557.6	556.0
57.5°	472.7	487.5	512.6	514.5	516.1
60°	432.1	445.0	469.4	472.0	468.5
62.5°	388.0	401.2	426.3	427.0	424.1
65°	346.2	356.2	381.6	381.0	379.0
67.5°	302.4	314.7	333.3	334.0	332.4
70°	261.6	269.9	288.0	288.3	284.4
72.5°	217.5	226.5	241.0	239.1	238.1
75°	174.7	181.8	193.1	194.4	191.1
77.5°	135.5	140.6	149.0	148.0	144.5
80°	95.2	99.4	105.5	104.3	100.4
82.5°	60.8	63.4	67.3	65.6	64.0
85°	33.1	33.4	33.8	33.4	32.5
87.5°	12.2	12.6	12.6	12.2	11.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)