

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: P488513

Luminaire Tested: **CLM-12-2-INS-P12125-LD4-2LO-35-120-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: P488513
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-12-2-INS-P12125-LD4-2LO-35-120-EDD
Description: 1X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

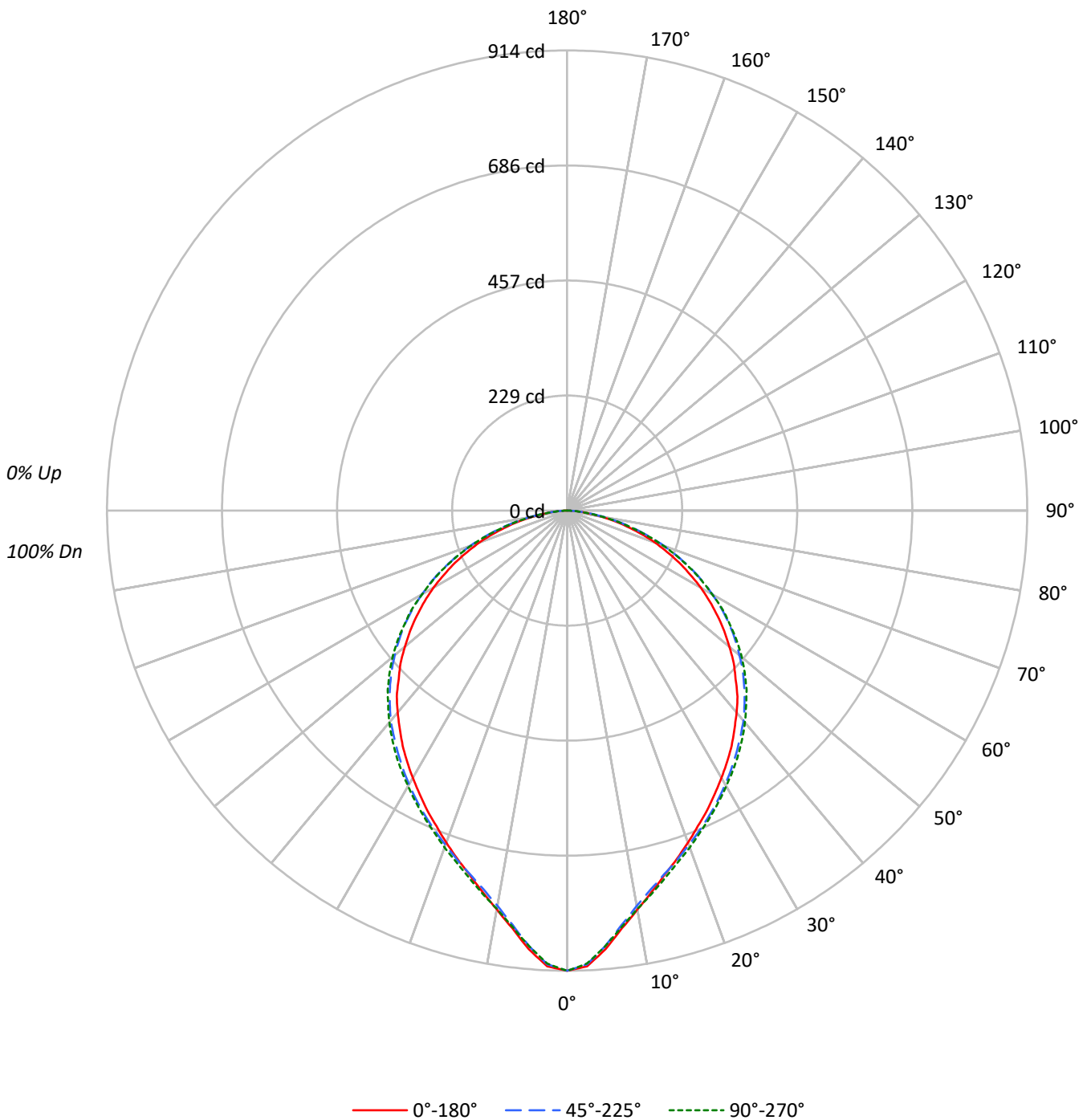
Lumens per Lamp: N/A
Luminaire Lumens: 2123.1 lumens
Efficiency: N/A
Efficacy: 90.7 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
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°	4919	4919	4919
5°	4723	4690	4690
10°	4396	4356	4390
15°	4172	4164	4204
20°	4018	4047	4078
25°	3903	3967	3990
30°	3810	3903	3928
35°	3744	3853	3893
40°	3678	3827	3859
45°	3602	3790	3835
50°	3522	3743	3792
55°	3425	3689	3704
60°	3301	3587	3579
65°	3129	3450	3426
70°	2922	3216	3177
75°	2578	2849	2822
80°	2095	2321	2207
85°	1451	1482	1426



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.8	3.8
10°-20°	211.6	10.0
20°-30°	307.6	14.5
30°-40°	366.1	17.2
40°-50°	380.1	17.9
50°-60°	344.4	16.2
60°-70°	259.9	12.2
70°-80°	141.6	6.7
80°-90°	31.1	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°	600.0	28.3
0°-40°	966.0	45.5
0°-60°	1690.5	79.6
0°-90°	2123.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2123.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	914	914	914	914	914	
5°	874	872	868	868	868	81
15°	749	747	747	752	755	211
25°	657	663	668	674	672	303
35°	570	577	586	595	592	356
45°	473	482	498	503	504	366
55°	365	374	393	396	395	326
65°	246	253	271	270	269	243
75°	124	129	137	138	136	132
85°	24	24	24	24	23	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	914.0	914.0	914.0	914.0	914.0
2.5°	906.0	905.1	902.1	901.0	900.8
5°	874.3	872.2	868.1	867.7	868.1
7.5°	836.4	834.1	830.0	831.6	833.6
10°	804.4	798.7	797.1	799.4	803.3
12.5°	775.8	771.3	769.9	775.8	778.6
15°	748.7	746.8	747.3	752.3	754.6
17.5°	725.1	724.0	727.0	730.9	732.0
20°	701.6	703.9	706.6	710.8	712.1
22.5°	678.6	682.9	687.5	692.9	691.1
25°	657.3	662.8	668.1	673.5	671.9
27.5°	634.7	641.1	648.4	654.3	652.1
30°	613.0	621.0	628.1	635.4	632.0
32.5°	591.5	599.1	607.5	616.4	612.5
35°	569.8	576.7	586.5	595.4	592.5
37.5°	545.9	554.3	565.5	573.3	571.2
40°	523.5	531.2	544.7	549.7	549.3
42.5°	500.9	507.3	521.4	527.1	526.2
45°	473.2	481.7	497.9	503.4	503.8
47.5°	448.8	455.9	473.2	477.6	478.5
50°	420.7	429.6	447.0	452.2	452.9
52.5°	393.1	402.6	420.5	424.1	424.8
55°	365.0	373.6	393.1	395.8	394.7
57.5°	335.5	346.0	363.8	365.2	366.3
60°	306.7	315.9	333.2	335.0	332.5
62.5°	275.4	284.8	302.6	303.1	301.0
65°	245.7	252.8	270.9	270.4	269.0
67.5°	214.7	223.4	236.6	237.1	235.9
70°	185.7	191.6	204.4	204.6	201.9
72.5°	154.4	160.8	171.1	169.7	169.0
75°	124.0	129.0	137.0	138.0	135.7
77.5°	96.2	99.8	105.7	105.1	102.5
80°	67.6	70.6	74.9	74.0	71.2
82.5°	43.2	45.0	47.7	46.6	45.4
85°	23.5	23.7	24.0	23.7	23.1
87.5°	8.7	8.9	8.9	8.7	8.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)