

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: P488491

Luminaire Tested: **CLM-12-2-INS-P12125-LD4-1STD-40-120-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: P488491
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-LD4-1STD-40-120-EDD
Description: 1X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

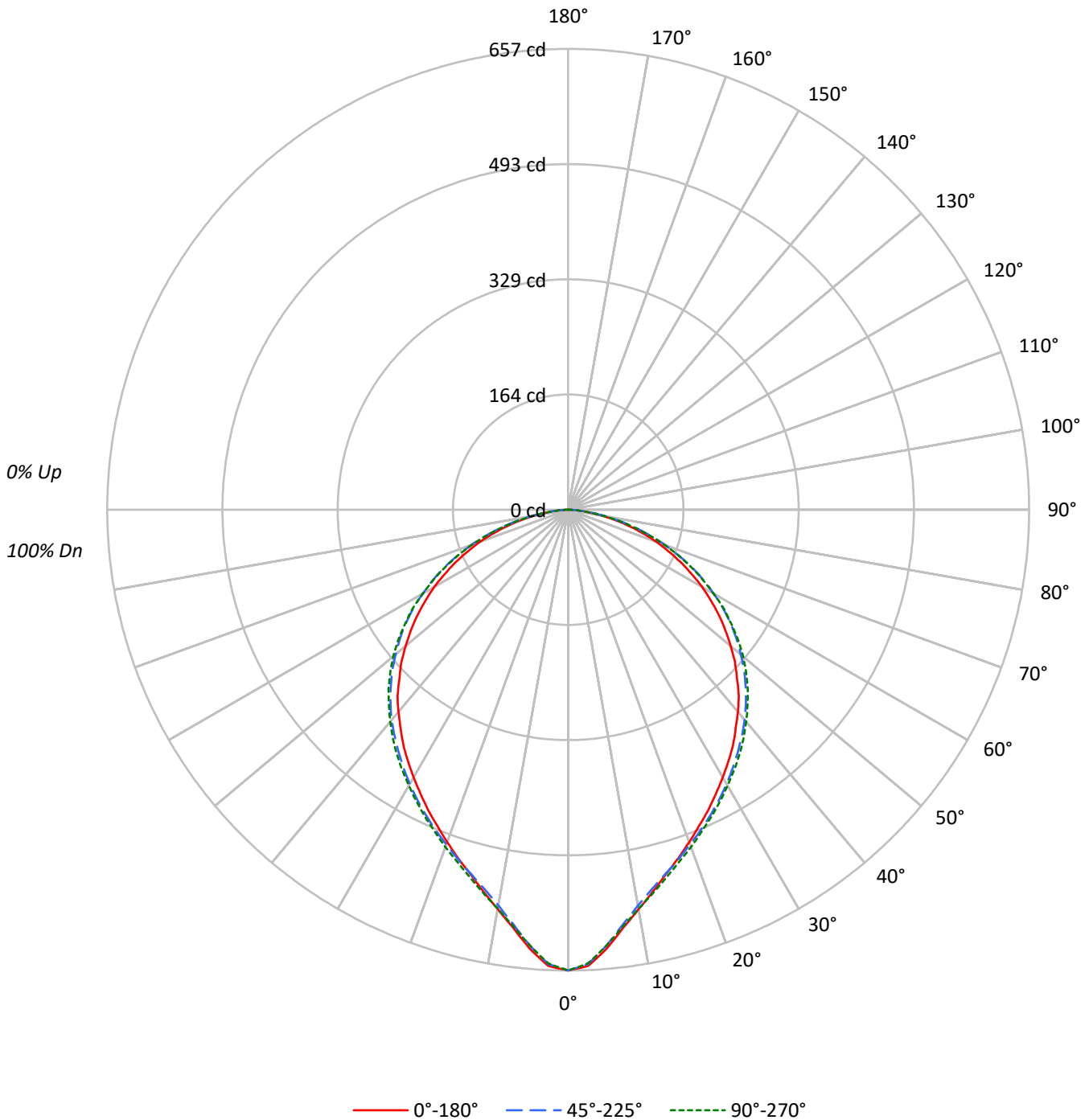
Lumens per Lamp: N/A
Luminaire Lumens: 1525.8 lumens
Efficiency: N/A
Efficacy: 91.9 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	3535	3535	3535
5°	3394	3371	3371
10°	3159	3130	3155
15°	2998	2993	3022
20°	2888	2908	2931
25°	2805	2851	2868
30°	2738	2805	2823
35°	2690	2769	2798
40°	2643	2751	2773
45°	2589	2723	2756
50°	2531	2689	2725
55°	2461	2651	2661
60°	2372	2578	2573
65°	2249	2479	2462
70°	2099	2312	2283
75°	1853	2048	2027
80°	1506	1667	1587
85°	1044	1062	1025



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.0	3.8
10°-20°	152.0	10.0
20°-30°	221.1	14.5
30°-40°	263.1	17.2
40°-50°	273.2	17.9
50°-60°	247.5	16.2
60°-70°	186.8	12.2
70°-80°	101.8	6.7
80°-90°	22.4	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°	431.2	28.3
0°-40°	694.3	45.5
0°-60°	1214.9	79.6
0°-90°	1525.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1525.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	657	657	657	657	657	
5°	628	627	624	624	624	58
15°	538	537	537	541	542	152
25°	472	476	480	484	483	218
35°	410	414	422	428	426	256
45°	340	346	358	362	362	263
55°	262	268	282	284	284	234
65°	177	182	195	194	193	175
75°	89	93	98	99	98	95
85°	17	17	17	17	17	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	656.9	656.9	656.9	656.9	656.9
2.5°	651.1	650.5	648.3	647.5	647.4
5°	628.3	626.8	623.9	623.6	623.9
7.5°	601.1	599.4	596.5	597.6	599.1
10°	578.1	574.0	572.8	574.5	577.3
12.5°	557.6	554.3	553.3	557.6	559.6
15°	538.0	536.7	537.1	540.7	542.3
17.5°	521.1	520.3	522.5	525.2	526.1
20°	504.2	505.9	507.8	510.8	511.8
22.5°	487.7	490.8	494.1	498.0	496.7
25°	472.4	476.3	480.1	484.0	482.9
27.5°	456.1	460.7	466.0	470.3	468.6
30°	440.5	446.3	451.4	456.6	454.2
32.5°	425.1	430.5	436.6	443.0	440.2
35°	409.5	414.4	421.5	427.9	425.8
37.5°	392.3	398.4	406.4	412.0	410.5
40°	376.2	381.8	391.5	395.1	394.7
42.5°	360.0	364.6	374.7	378.8	378.2
45°	340.1	346.2	357.8	361.8	362.1
47.5°	322.5	327.6	340.1	343.2	343.9
50°	302.3	308.7	321.2	325.0	325.5
52.5°	282.5	289.4	302.2	304.8	305.3
55°	262.3	268.5	282.5	284.5	283.6
57.5°	241.1	248.7	261.5	262.5	263.3
60°	220.4	227.0	239.5	240.8	239.0
62.5°	198.0	204.7	217.5	217.8	216.3
65°	176.6	181.7	194.7	194.3	193.3
67.5°	154.3	160.5	170.0	170.4	169.6
70°	133.4	137.7	146.9	147.1	145.1
72.5°	111.0	115.6	122.9	122.0	121.5
75°	89.1	92.7	98.5	99.1	97.5
77.5°	69.1	71.7	76.0	75.5	73.7
80°	48.6	50.7	53.8	53.2	51.2
82.5°	31.0	32.3	34.3	33.5	32.7
85°	16.9	17.1	17.2	17.1	16.6
87.5°	6.2	6.4	6.4	6.2	5.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)