

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: P488461

Luminaire Tested: **CLM-12-2-INS-P12125-LD4-1HI-27-120-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: P488461
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-LD4-1HI-27-120-EDD
Description: 1X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

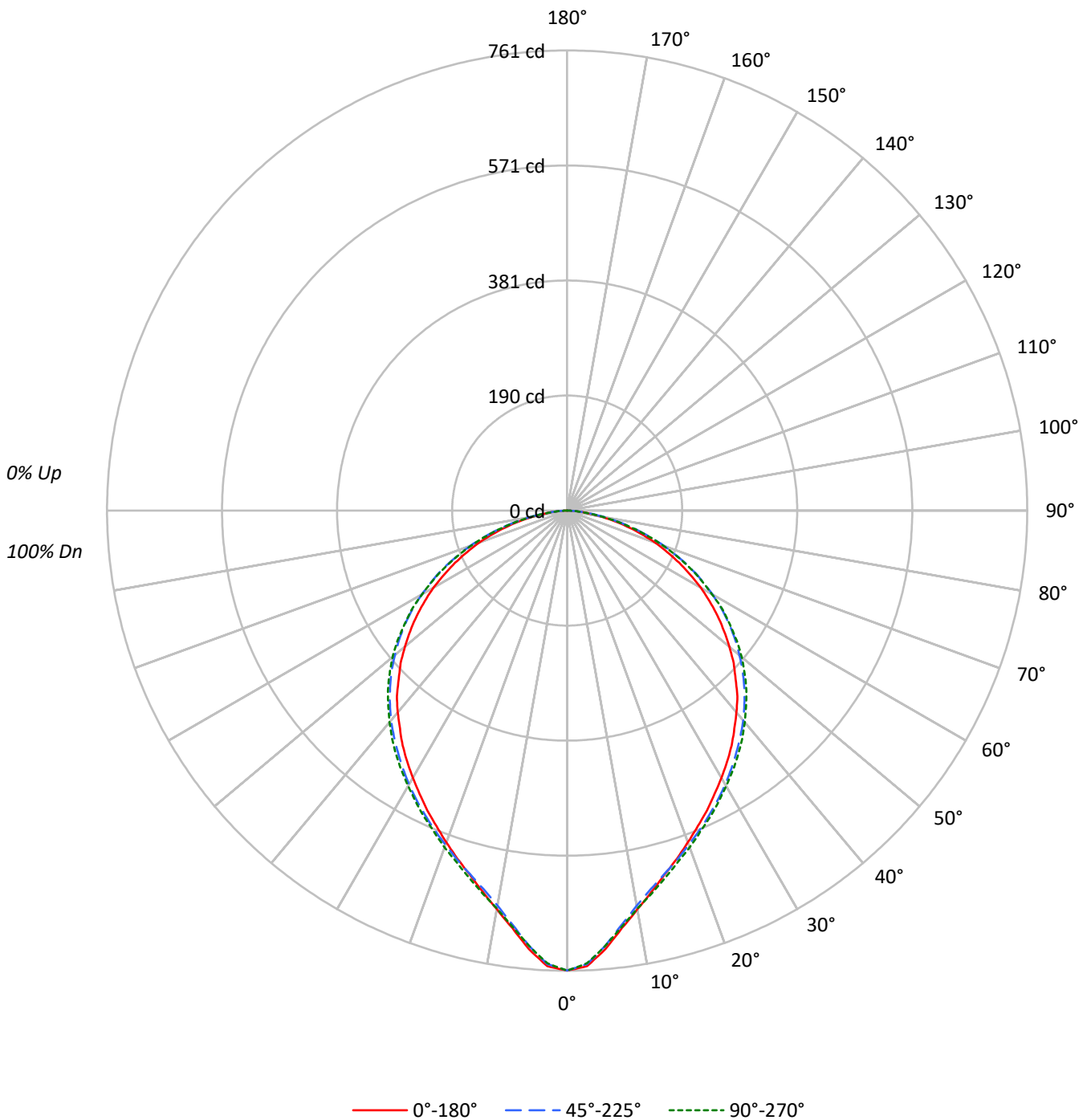
Lumens per Lamp: N/A
Luminaire Lumens: 1766.8 lumens
Efficiency: N/A
Efficacy: 81.8 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 21.6
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°	4094	4094	4094
5°	3931	3903	3903
10°	3658	3625	3653
15°	3471	3465	3499
20°	3344	3368	3394
25°	3248	3301	3321
30°	3170	3248	3268
35°	3116	3207	3239
40°	3060	3185	3211
45°	2997	3153	3191
50°	2931	3115	3156
55°	2850	3069	3081
60°	2747	2985	2978
65°	2604	2870	2851
70°	2431	2677	2644
75°	2146	2371	2348
80°	1745	1931	1838
85°	1210	1235	1186



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.2	3.8
10°-20°	176.1	10.0
20°-30°	256.0	14.5
30°-40°	304.7	17.2
40°-50°	316.3	17.9
50°-60°	286.6	16.2
60°-70°	216.2	12.2
70°-80°	117.8	6.7
80°-90°	25.9	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°	499.3	28.3
0°-40°	803.9	45.5
0°-60°	1406.8	79.6
0°-90°	1766.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1766.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	761	761	761	761	761	
5°	728	726	722	722	722	68
15°	623	622	622	626	628	176
25°	547	552	556	560	559	252
35°	474	480	488	496	493	296
45°	394	401	414	419	419	304
55°	304	311	327	329	328	271
65°	204	210	225	225	224	202
75°	103	107	114	115	113	110
85°	20	20	20	20	19	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	760.6	760.6	760.6	760.6	760.6
2.5°	754.0	753.2	750.7	749.8	749.6
5°	727.6	725.9	722.4	722.1	722.4
7.5°	696.0	694.1	690.7	692.0	693.7
10°	669.4	664.7	663.3	665.2	668.4
12.5°	645.6	641.8	640.7	645.6	647.9
15°	623.0	621.5	621.9	626.1	628.0
17.5°	603.5	602.5	605.0	608.2	609.2
20°	583.9	585.8	588.1	591.5	592.6
22.5°	564.7	568.3	572.1	576.7	575.1
25°	547.0	551.6	555.9	560.5	559.2
27.5°	528.2	533.5	539.6	544.5	542.6
30°	510.1	516.8	522.7	528.7	525.9
32.5°	492.3	498.5	505.6	513.0	509.8
35°	474.2	479.9	488.1	495.5	493.0
37.5°	454.3	461.3	470.6	477.1	475.4
40°	435.6	442.1	453.3	457.5	457.1
42.5°	416.8	422.1	433.9	438.7	437.9
45°	393.8	400.8	414.3	418.9	419.3
47.5°	373.5	379.4	393.8	397.4	398.2
50°	350.1	357.5	372.0	376.3	376.9
52.5°	327.1	335.1	349.9	352.9	353.5
55°	303.7	310.9	327.1	329.4	328.4
57.5°	279.2	287.9	302.8	303.9	304.9
60°	255.2	262.9	277.3	278.8	276.7
62.5°	229.2	237.0	251.8	252.2	250.5
65°	204.5	210.4	225.4	225.0	223.9
67.5°	178.7	185.9	196.9	197.3	196.3
70°	154.5	159.5	170.1	170.3	168.0
72.5°	128.5	133.8	142.3	141.2	140.7
75°	103.2	107.4	114.0	114.8	112.9
77.5°	80.0	83.1	88.0	87.4	85.3
80°	56.3	58.7	62.3	61.6	59.3
82.5°	35.9	37.4	39.7	38.8	37.8
85°	19.6	19.8	20.0	19.8	19.2
87.5°	7.2	7.4	7.4	7.2	6.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)