

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: P488494

Luminaire Tested: **CLM-12-2-INS-P12125-LD4-2HI-20-120-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: P488494
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-LD4-2HI-20-120-EDD-90
Description: 1X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

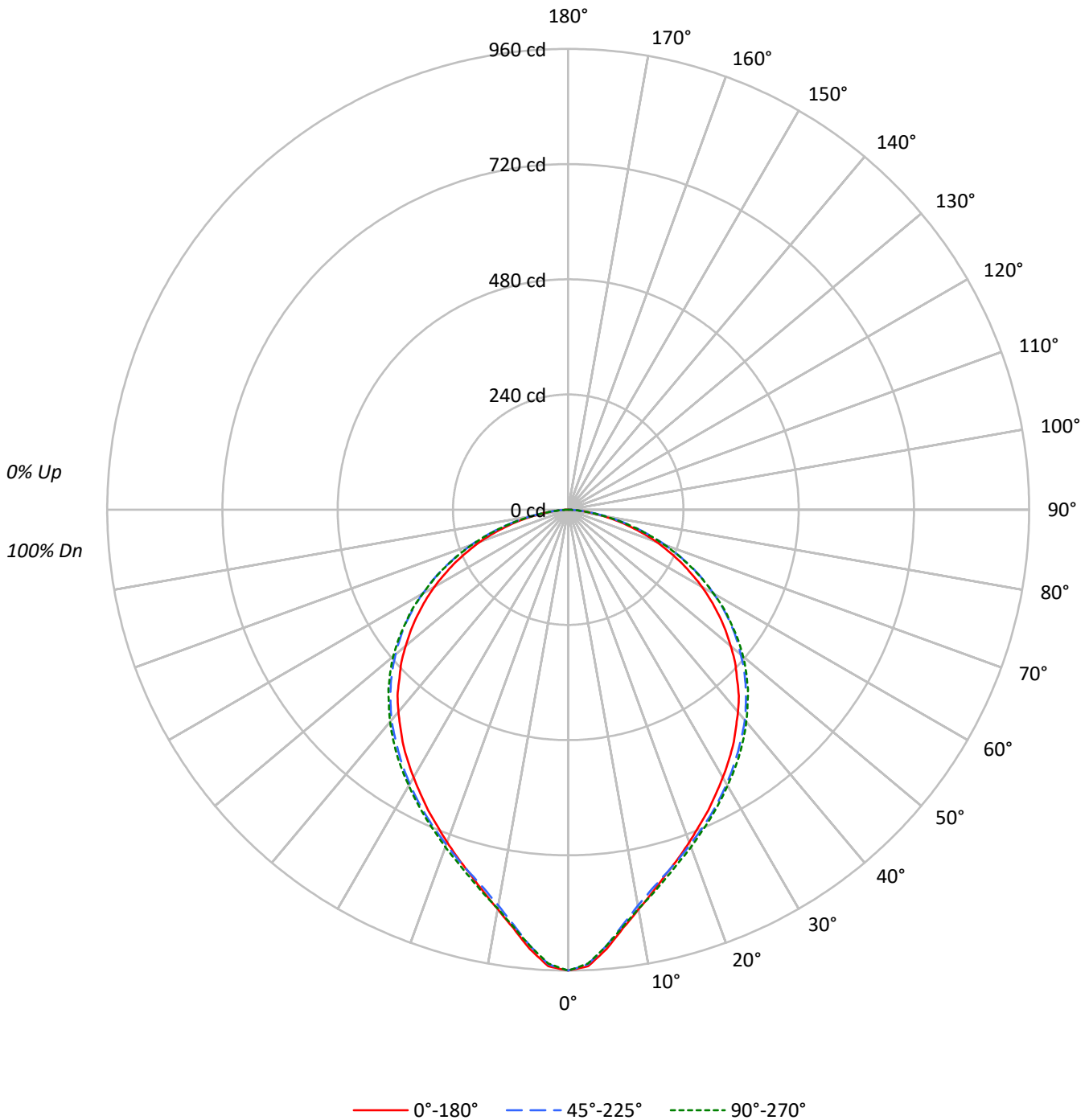
Lumens per Lamp: N/A
Luminaire Lumens: 2230.2 lumens
Efficiency: N/A
Efficacy: 51.6 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 43.2
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°	5167	5167	5167
5°	4962	4927	4927
10°	4618	4576	4611
15°	4382	4374	4417
20°	4221	4251	4284
25°	4100	4168	4191
30°	4002	4100	4125
35°	3933	4048	4089
40°	3863	4020	4054
45°	3784	3981	4028
50°	3700	3931	3984
55°	3598	3874	3890
60°	3468	3767	3760
65°	3287	3623	3599
70°	3068	3378	3338
75°	2709	2994	2963
80°	2201	2439	2318
85°	1525	1556	1494



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.8	3.8
10°-20°	222.2	10.0
20°-30°	323.2	14.5
30°-40°	384.6	17.2
40°-50°	399.3	17.9
50°-60°	361.7	16.2
60°-70°	273.0	12.2
70°-80°	148.7	6.7
80°-90°	32.7	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°	630.2	28.3
0°-40°	1014.8	45.5
0°-60°	1775.8	79.6
0°-90°	2230.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2230.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	960	960	960	960	960	
5°	918	916	912	911	912	85
15°	786	784	785	790	793	222
25°	690	696	702	708	706	318
35°	599	606	616	626	622	374
45°	497	506	523	529	529	384
55°	383	392	413	416	415	342
65°	258	266	284	284	283	255
75°	130	136	144	145	142	139
85°	25	25	25	25	24	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	960.1	960.1	960.1	960.1	960.1
2.5°	951.7	950.8	947.7	946.5	946.2
5°	918.4	916.2	911.9	911.4	911.9
7.5°	878.6	876.2	871.9	873.5	875.7
10°	845.0	839.0	837.3	839.7	843.8
12.5°	815.0	810.2	808.7	815.0	817.9
15°	786.4	784.5	785.0	790.3	792.7
17.5°	761.7	760.5	763.6	767.7	768.9
20°	737.0	739.4	742.3	746.6	748.0
22.5°	712.8	717.3	722.1	727.9	726.0
25°	690.5	696.2	701.8	707.5	705.8
27.5°	666.7	673.4	681.1	687.4	684.9
30°	643.9	652.3	659.8	667.4	663.8
32.5°	621.4	629.3	638.2	647.5	643.4
35°	598.6	605.8	616.1	625.5	622.3
37.5°	573.4	582.3	594.0	602.2	600.0
40°	549.9	558.0	572.2	577.5	577.0
42.5°	526.1	532.9	547.7	553.7	552.8
45°	497.1	506.0	523.0	528.8	529.2
47.5°	471.4	478.9	497.1	501.7	502.6
50°	441.9	451.3	469.5	475.0	475.8
52.5°	412.9	423.0	441.7	445.5	446.2
55°	383.4	392.5	412.9	415.8	414.6
57.5°	352.4	363.5	382.2	383.6	384.8
60°	322.2	331.8	350.0	351.9	349.3
62.5°	289.3	299.2	317.9	318.4	316.2
65°	258.1	265.6	284.5	284.1	282.6
67.5°	225.5	234.6	248.6	249.0	247.8
70°	195.0	201.3	214.7	215.0	212.1
72.5°	162.2	168.9	179.7	178.3	177.5
75°	130.3	135.6	144.0	144.9	142.5
77.5°	101.0	104.8	111.1	110.4	107.7
80°	71.0	74.1	78.7	77.7	74.8
82.5°	45.3	47.3	50.1	48.9	47.7
85°	24.7	24.9	25.2	24.9	24.2
87.5°	9.1	9.4	9.4	9.1	8.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)