

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: P489903

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-5HI-30-120-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: P489903
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-24-4-INS-P12125-LD4-5HI-30-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

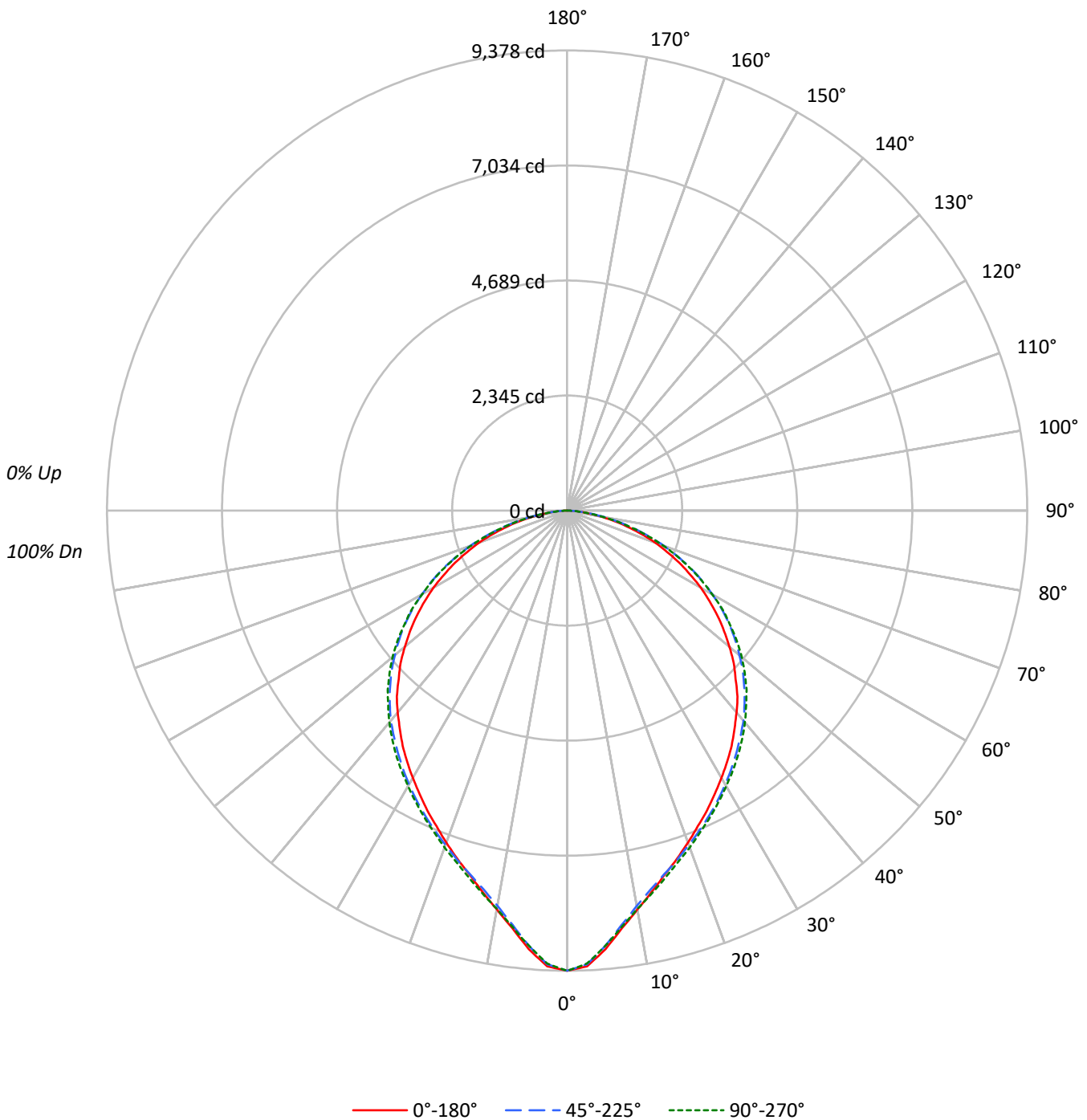
Lumens per Lamp: N/A
Luminaire Lumens: 21782.4 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 216
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°	12618	12618	12618
5°	12115	12030	12030
10°	11275	11173	11259
15°	10699	10680	10784
20°	10307	10381	10461
25°	10012	10175	10235
30°	9771	10011	10073
35°	9603	9884	9984
40°	9433	9816	9898
45°	9239	9720	9836
50°	9035	9599	9727
55°	8784	9460	9499
60°	8468	9200	9181
65°	8027	8847	8788
70°	7494	8250	8149
75°	6615	7309	7236
80°	5374	5955	5664
85°	3727	3798	3653



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	828.6	3.8
10°-20°	2170.5	10.0
20°-30°	3156.3	14.5
30°-40°	3755.9	17.2
40°-50°	3900.0	17.9
50°-60°	3533.1	16.2
60°-70°	2666.1	12.2
70°-80°	1452.6	6.7
80°-90°	319.2	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°	6155.4	28.3
0°-40°	9911.3	45.5
0°-60°	17344.5	79.6
0°-90°	21782.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21782.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9378	9378	9378	9378	9378	
5°	8970	8949	8907	8902	8907	832
15°	7681	7662	7667	7719	7742	2168
25°	6744	6800	6854	6910	6894	3108
35°	5846	5917	6018	6109	6078	3655
45°	4855	4942	5108	5165	5169	3753
55°	3744	3833	4033	4061	4049	3343
65°	2521	2594	2779	2774	2760	2492
75°	1272	1324	1406	1415	1392	1355
85°	241	244	246	244	237	305
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9377.7	9377.7	9377.7	9377.7	9377.7
2.5°	9295.6	9286.2	9255.8	9244.0	9241.6
5°	8969.9	8948.8	8906.6	8902.0	8906.6
7.5°	8580.9	8557.4	8515.4	8531.7	8552.9
10°	8252.9	8194.3	8177.8	8201.3	8241.1
12.5°	7959.9	7913.1	7898.9	7959.9	7988.2
15°	7681.0	7662.3	7667.1	7718.7	7742.0
17.5°	7439.8	7428.1	7458.6	7498.4	7510.1
20°	7198.4	7221.9	7250.0	7292.2	7306.2
22.5°	6961.8	7006.2	7053.2	7109.4	7090.7
25°	6743.9	6800.1	6854.0	6910.2	6893.9
27.5°	6511.8	6577.4	6652.5	6713.4	6689.9
30°	6289.2	6371.2	6443.9	6518.8	6483.8
32.5°	6069.1	6146.3	6233.0	6324.4	6284.6
35°	5846.4	5916.7	6017.5	6108.9	6078.4
37.5°	5600.4	5687.0	5801.8	5881.4	5860.5
40°	5370.7	5450.4	5588.6	5640.2	5635.4
42.5°	5138.7	5204.4	5349.6	5408.2	5398.8
45°	4855.3	4941.9	5108.2	5164.6	5169.2
47.5°	4604.5	4677.2	4855.3	4899.7	4909.0
50°	4316.3	4407.7	4585.8	4639.5	4646.7
52.5°	4032.6	4131.0	4313.9	4351.3	4358.5
55°	3744.4	3833.4	4032.6	4060.9	4049.2
57.5°	3442.3	3550.0	3732.9	3746.8	3758.6
60°	3146.9	3240.7	3418.8	3437.5	3411.8
62.5°	2826.0	2922.0	3104.8	3109.4	3088.3
65°	2521.2	2593.9	2779.0	2774.4	2760.3
67.5°	2202.6	2291.6	2427.6	2432.2	2420.7
70°	1905.0	1965.9	2097.2	2099.6	2071.5
72.5°	1584.1	1649.6	1755.0	1741.0	1734.1
75°	1272.4	1324.0	1406.0	1415.4	1391.9
77.5°	986.5	1024.0	1084.9	1078.0	1052.1
80°	693.6	724.0	768.6	759.3	731.0
82.5°	442.8	461.7	489.8	478.0	466.3
85°	241.4	243.6	246.0	243.6	236.6
87.5°	89.0	91.4	91.4	89.0	82.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)