

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: P489908

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-5HI-50-120-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: P489908
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-50-120-EDD-90
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

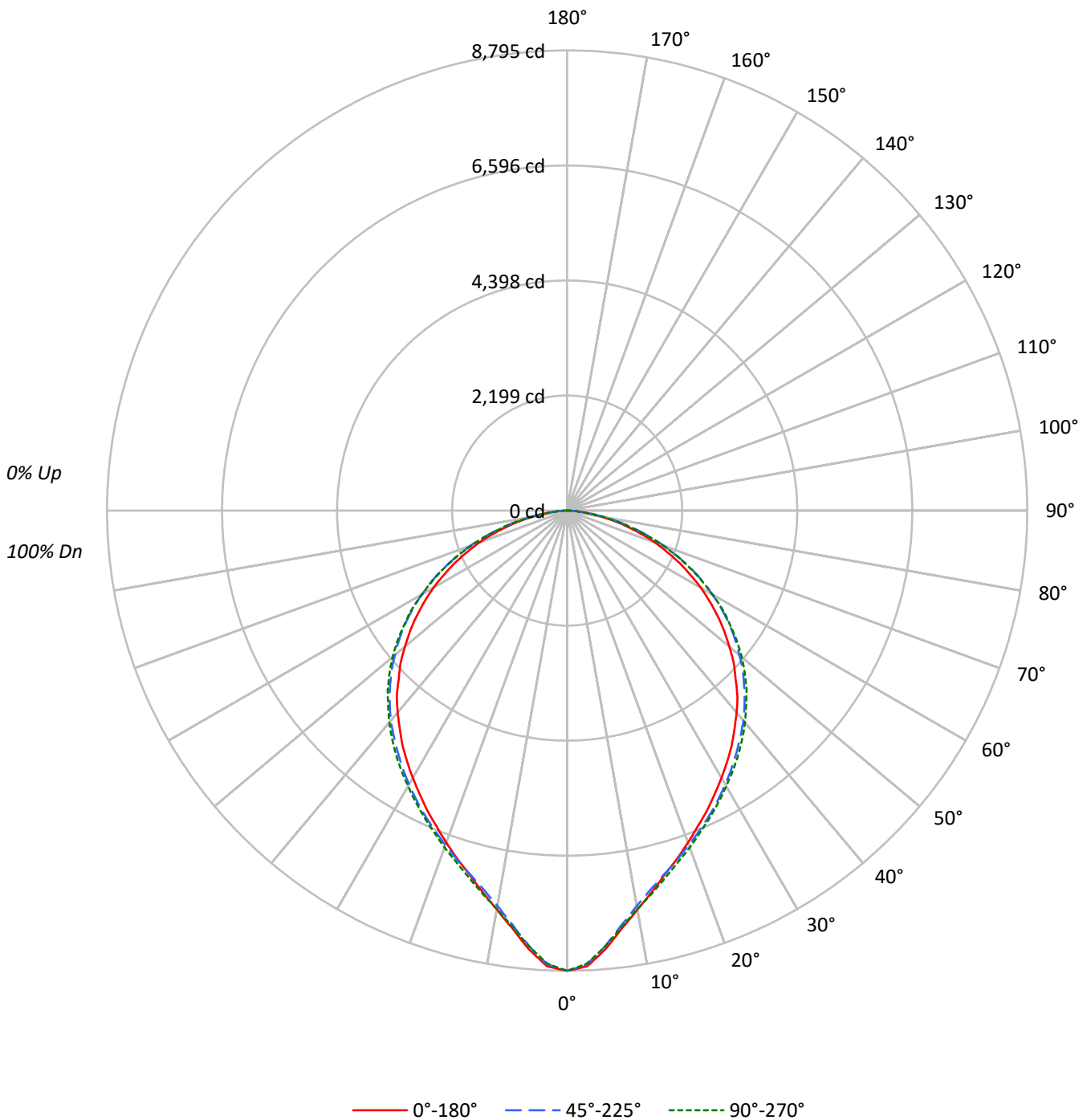
Lumens per Lamp: N/A
Luminaire Lumens: 20430.0 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	11834	11834	11834
5°	11363	11283	11283
10°	10575	10479	10560
15°	10035	10017	10115
20°	9667	9736	9812
25°	9390	9544	9599
30°	9164	9390	9448
35°	9007	9270	9364
40°	8848	9207	9284
45°	8665	9117	9225
50°	8474	9003	9123
55°	8238	8872	8909
60°	7942	8629	8611
65°	7528	8298	8242
70°	7029	7738	7643
75°	6204	6855	6787
80°	5040	5586	5312
85°	3495	3561	3426



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	777.2	3.8
10°-20°	2035.7	10.0
20°-30°	2960.3	14.5
30°-40°	3522.7	17.2
40°-50°	3657.8	17.9
50°-60°	3313.8	16.2
60°-70°	2500.6	12.2
70°-80°	1362.5	6.7
80°-90°	299.4	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°	5773.3	28.3
0°-40°	9296.0	45.5
0°-60°	16267.6	79.6
0°-90°	20430.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	20430.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8795	8795	8795	8795	8795	
5°	8413	8393	8354	8349	8354	781
15°	7204	7187	7191	7240	7261	2033
25°	6325	6378	6428	6481	6466	2915
35°	5483	5549	5644	5730	5701	3428
45°	4554	4635	4791	4844	4848	3520
55°	3512	3595	3782	3809	3798	3136
65°	2365	2433	2606	2602	2589	2338
75°	1193	1242	1319	1328	1306	1271
85°	226	228	231	228	222	286
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8795.4	8795.4	8795.4	8795.4	8795.4
2.5°	8718.5	8709.7	8681.1	8670.1	8667.8
5°	8413.0	8393.2	8353.6	8349.3	8353.6
7.5°	8048.2	8026.1	7986.7	8002.0	8021.8
10°	7740.5	7685.6	7670.1	7692.1	7729.5
12.5°	7465.7	7421.8	7408.5	7465.7	7492.2
15°	7204.1	7186.6	7191.1	7239.5	7261.3
17.5°	6977.9	6966.9	6995.5	7032.8	7043.9
20°	6751.5	6773.5	6799.9	6839.5	6852.6
22.5°	6529.6	6571.2	6615.3	6668.0	6650.4
25°	6325.2	6377.9	6428.5	6481.2	6465.9
27.5°	6107.5	6169.0	6239.4	6296.6	6274.6
30°	5898.7	5975.7	6043.8	6114.1	6081.2
32.5°	5692.3	5764.7	5846.0	5931.8	5894.4
35°	5483.4	5549.3	5643.9	5729.6	5701.0
37.5°	5252.7	5333.9	5441.5	5516.3	5496.7
40°	5037.3	5112.0	5241.7	5290.0	5285.6
42.5°	4819.6	4881.3	5017.5	5072.4	5063.6
45°	4553.8	4635.1	4791.1	4843.9	4848.2
47.5°	4318.6	4386.8	4553.8	4595.5	4604.2
50°	4048.3	4134.0	4301.0	4351.5	4358.2
52.5°	3782.3	3874.5	4046.0	4081.2	4087.9
55°	3511.9	3595.4	3782.3	3808.8	3797.8
57.5°	3228.5	3329.6	3501.1	3514.2	3525.2
60°	2951.5	3039.5	3206.5	3224.1	3200.0
62.5°	2650.5	2740.6	2912.1	2916.4	2896.6
65°	2364.7	2432.9	2606.4	2602.1	2588.9
67.5°	2065.8	2149.3	2276.9	2281.2	2270.4
70°	1786.7	1843.9	1967.0	1969.2	1942.9
72.5°	1485.7	1547.2	1646.0	1633.0	1626.4
75°	1193.4	1241.8	1318.7	1327.5	1305.5
77.5°	925.3	960.4	1017.6	1011.0	986.8
80°	650.5	679.1	720.9	712.1	685.6
82.5°	415.3	433.0	459.4	448.4	437.3
85°	226.4	228.5	230.7	228.5	221.9
87.5°	83.5	85.7	85.7	83.5	77.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)