

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: P489862

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-4HI-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: P489862
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-LD4-4HI-20-120-EDD-90
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

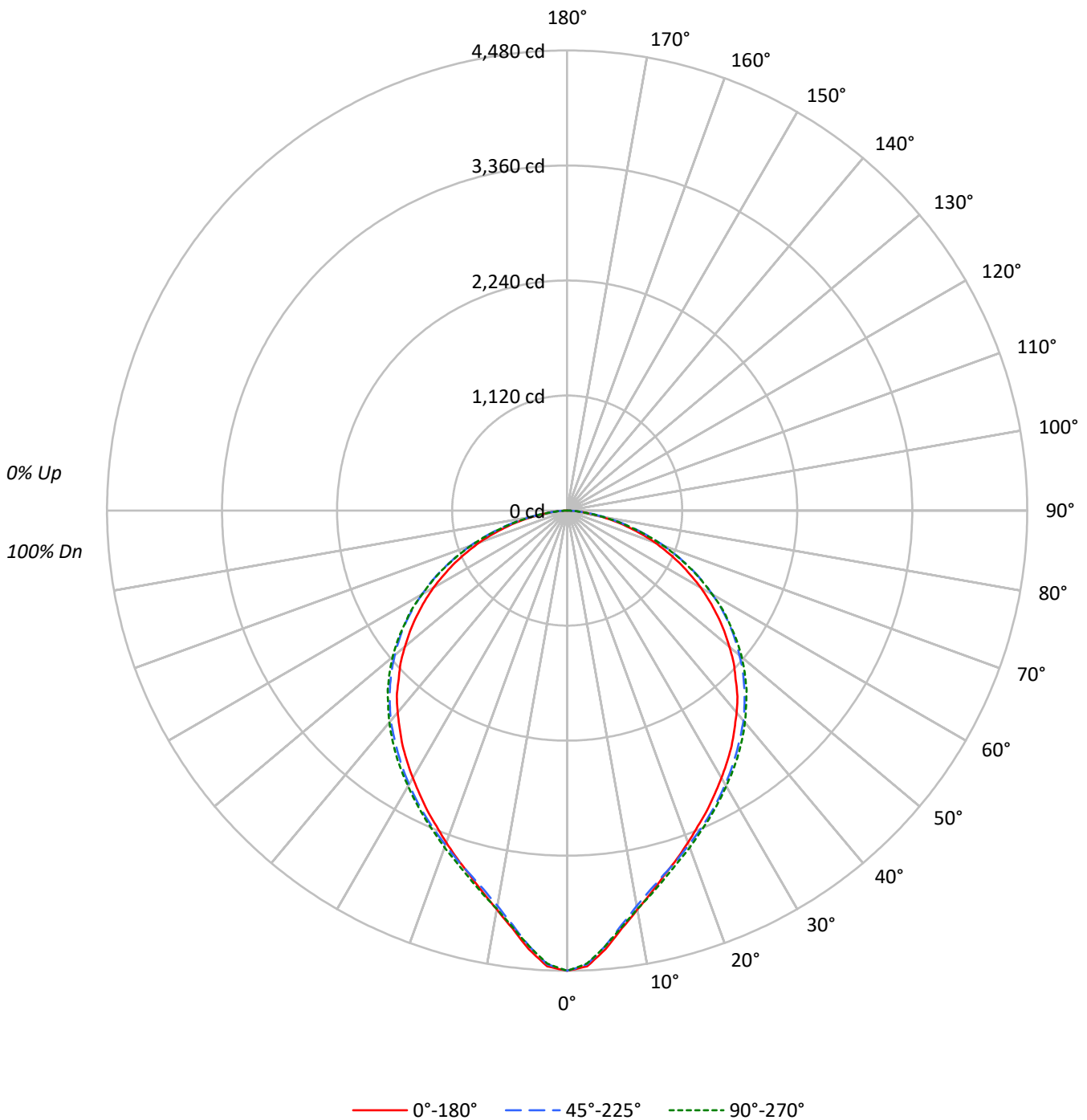
Lumens per Lamp: N/A
Luminaire Lumens: 10406.7 lumens
Efficiency: N/A
Efficacy: 60.2 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 172.8
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°	6028	6028	6028
5°	5788	5747	5747
10°	5387	5338	5379
15°	5112	5102	5152
20°	4924	4959	4998
25°	4783	4861	4890
30°	4668	4783	4813
35°	4588	4722	4770
40°	4507	4690	4729
45°	4414	4644	4699
50°	4316	4586	4647
55°	4196	4519	4538
60°	4046	4395	4386
65°	3835	4227	4198
70°	3580	3941	3893
75°	3160	3492	3457
80°	2567	2845	2706
85°	1780	1814	1746



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	395.9	3.8
10°-20°	1037.0	10.0
20°-30°	1507.9	14.5
30°-40°	1794.4	17.2
40°-50°	1863.2	17.9
50°-60°	1688.0	16.2
60°-70°	1273.7	12.2
70°-80°	694.0	6.7
80°-90°	152.5	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°	2940.8	28.3
0°-40°	4735.2	45.5
0°-60°	8286.4	79.6
0°-90°	10406.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10406.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4480	4480	4480	4480	4480	
5°	4286	4275	4255	4253	4255	398
15°	3670	3661	3663	3688	3699	1036
25°	3222	3249	3275	3301	3294	1485
35°	2793	2827	2875	2919	2904	1746
45°	2320	2361	2440	2467	2470	1793
55°	1789	1832	1927	1940	1934	1597
65°	1204	1239	1328	1326	1319	1191
75°	608	632	672	676	665	648
85°	115	116	118	116	113	145
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4480.2	4480.2	4480.2	4480.2	4480.2
2.5°	4441.0	4436.6	4422.0	4416.4	4415.3
5°	4285.5	4275.4	4255.2	4253.0	4255.2
7.5°	4099.6	4088.4	4068.3	4076.1	4086.2
10°	3942.9	3914.9	3907.0	3918.2	3937.3
12.5°	3802.9	3780.5	3773.8	3802.9	3816.4
15°	3669.7	3660.7	3663.0	3687.7	3698.8
17.5°	3554.4	3548.8	3563.4	3582.4	3588.0
20°	3439.1	3450.3	3463.7	3483.9	3490.6
22.5°	3326.0	3347.3	3369.7	3396.6	3387.6
25°	3221.9	3248.8	3274.6	3301.4	3293.6
27.5°	3111.1	3142.4	3178.3	3207.4	3196.2
30°	3004.7	3043.9	3078.6	3114.4	3097.7
32.5°	2899.5	2936.5	2977.9	3021.5	3002.5
35°	2793.1	2826.7	2874.9	2918.6	2904.0
37.5°	2675.6	2717.0	2771.8	2809.9	2799.9
40°	2565.9	2604.0	2670.0	2694.7	2692.4
42.5°	2455.0	2486.4	2555.8	2583.8	2579.3
45°	2319.6	2361.0	2440.5	2467.4	2469.6
47.5°	2199.8	2234.6	2319.6	2340.9	2345.3
50°	2062.1	2105.8	2190.9	2216.6	2220.0
52.5°	1926.6	1973.6	2061.0	2078.9	2082.3
55°	1788.9	1831.5	1926.6	1940.1	1934.5
57.5°	1644.6	1696.0	1783.4	1790.1	1795.7
60°	1503.4	1548.3	1633.3	1642.3	1630.0
62.5°	1350.1	1396.0	1483.4	1485.6	1475.5
65°	1204.5	1239.3	1327.7	1325.5	1318.7
67.5°	1052.3	1094.8	1159.8	1162.0	1156.5
70°	910.1	939.2	1001.9	1003.1	989.7
72.5°	756.8	788.1	838.5	831.8	828.5
75°	607.9	632.5	671.7	676.2	665.0
77.5°	471.3	489.2	518.3	515.0	502.6
80°	331.3	345.9	367.2	362.8	349.2
82.5°	211.5	220.6	234.0	228.4	222.8
85°	115.3	116.4	117.5	116.4	113.1
87.5°	42.5	43.7	43.7	42.5	39.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)