

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: P489881

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-4LO-35-120-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: P489881
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-LD4-4LO-35-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

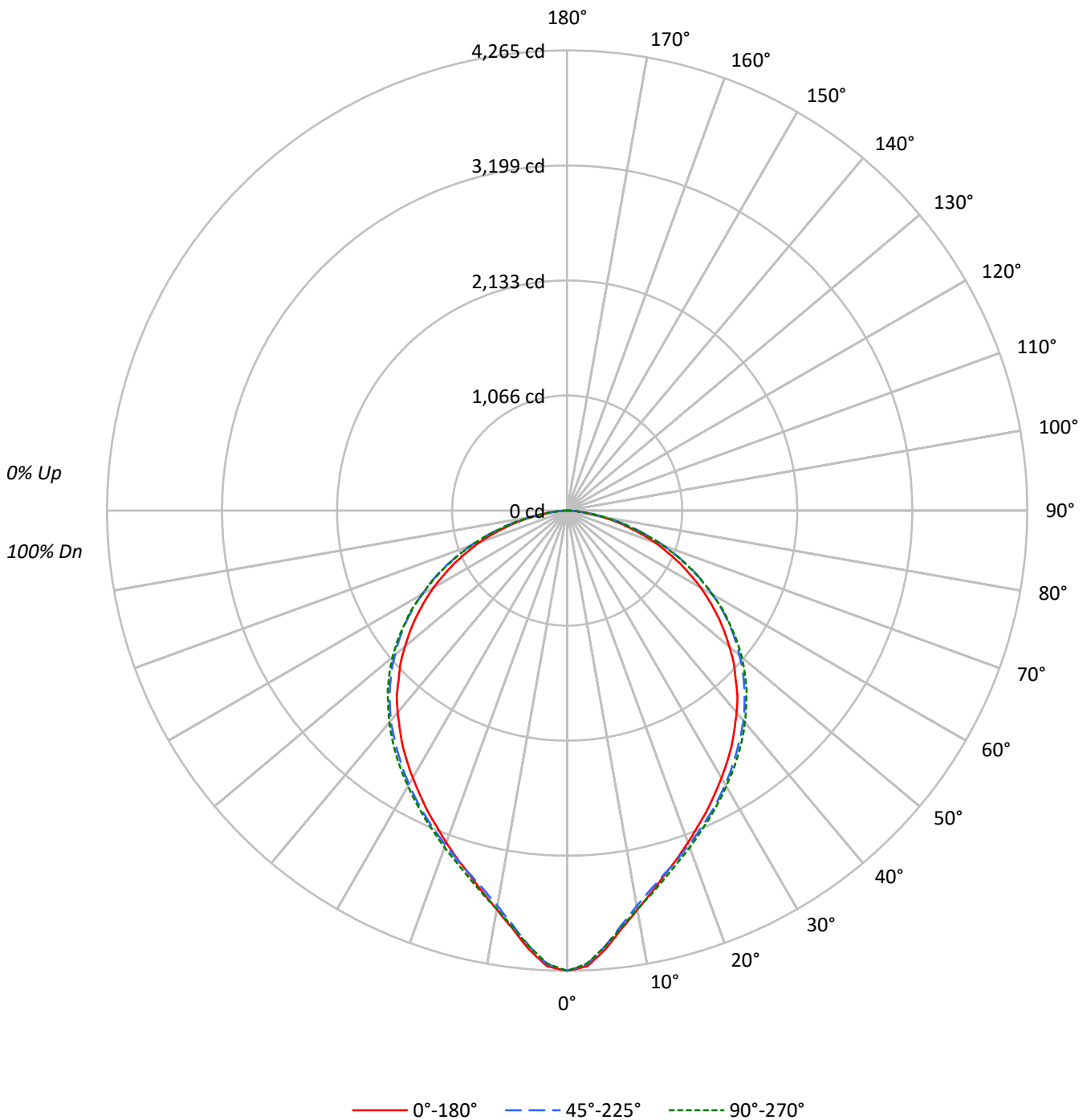
Lumens per Lamp: N/A
Luminaire Lumens: 9907.0 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 93.6
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	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°	5739	5739	5739
5°	5510	5471	5471
10°	5128	5082	5121
15°	4866	4857	4905
20°	4688	4721	4758
25°	4554	4628	4655
30°	4444	4553	4582
35°	4368	4495	4541
40°	4290	4464	4502
45°	4202	4421	4474
50°	4109	4366	4424
55°	3995	4302	4320
60°	3851	4184	4176
65°	3651	4024	3997
70°	3408	3752	3706
75°	3008	3324	3291
80°	2444	2709	2576
85°	1695	1727	1661



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	376.9	3.8
10°-20°	987.2	10.0
20°-30°	1435.5	14.5
30°-40°	1708.3	17.2
40°-50°	1773.8	17.9
50°-60°	1606.9	16.2
60°-70°	1212.6	12.2
70°-80°	660.7	6.7
80°-90°	145.2	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°	2799.6	28.3
0°-40°	4507.9	45.5
0°-60°	7888.6	79.6
0°-90°	9907.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9907.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4265	4265	4265	4265	4265	
5°	4080	4070	4051	4049	4051	379
15°	3494	3485	3487	3511	3521	986
25°	3067	3093	3117	3143	3135	1413
35°	2659	2691	2737	2778	2765	1662
45°	2208	2248	2323	2349	2351	1707
55°	1703	1744	1834	1847	1842	1521
65°	1147	1180	1264	1262	1255	1134
75°	579	602	640	644	633	616
85°	110	111	112	111	108	139
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4265.1	4265.1	4265.1	4265.1	4265.1
2.5°	4227.8	4223.5	4209.7	4204.3	4203.2
5°	4079.7	4070.1	4050.9	4048.8	4050.9
7.5°	3902.8	3892.1	3873.0	3880.4	3890.0
10°	3753.6	3726.9	3719.4	3730.1	3748.2
12.5°	3620.3	3599.0	3592.6	3620.3	3633.2
15°	3493.5	3485.0	3487.1	3510.6	3521.2
17.5°	3383.8	3378.4	3392.3	3410.4	3415.7
20°	3274.0	3284.7	3297.4	3316.6	3323.0
22.5°	3166.3	3186.5	3207.9	3233.5	3225.0
25°	3067.2	3092.8	3117.3	3142.9	3135.4
27.5°	2961.7	2991.5	3025.7	3053.4	3042.7
30°	2860.4	2897.7	2930.8	2964.9	2948.9
32.5°	2760.3	2795.5	2834.9	2876.4	2858.3
35°	2659.0	2691.0	2736.8	2778.4	2764.6
37.5°	2547.2	2586.6	2638.7	2675.0	2665.5
40°	2442.7	2478.9	2541.8	2565.3	2563.1
42.5°	2337.2	2367.1	2433.1	2459.7	2455.5
45°	2208.2	2247.7	2323.3	2348.9	2351.0
47.5°	2094.2	2127.3	2208.2	2228.5	2232.7
50°	1963.1	2004.7	2085.7	2110.1	2113.4
52.5°	1834.1	1878.9	1962.0	1979.1	1982.3
55°	1703.0	1743.5	1834.1	1847.0	1841.6
57.5°	1565.6	1614.6	1697.8	1704.1	1709.5
60°	1431.2	1473.9	1554.9	1563.4	1551.7
62.5°	1285.3	1329.0	1412.1	1414.2	1404.6
65°	1146.7	1179.8	1263.9	1261.8	1255.4
67.5°	1001.8	1042.3	1104.1	1106.2	1101.0
70°	866.4	894.1	953.8	954.9	942.1
72.5°	720.5	750.3	798.2	791.9	788.7
75°	578.7	602.2	639.5	643.7	633.1
77.5°	448.7	465.7	493.4	490.3	478.5
80°	315.4	329.3	349.6	345.3	332.5
82.5°	201.4	210.0	222.8	217.4	212.1
85°	109.8	110.8	111.9	110.8	107.6
87.5°	40.5	41.6	41.6	40.5	37.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)