

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: P489904

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-5HI-35-120-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: P489904
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-35-120-EDD-90
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

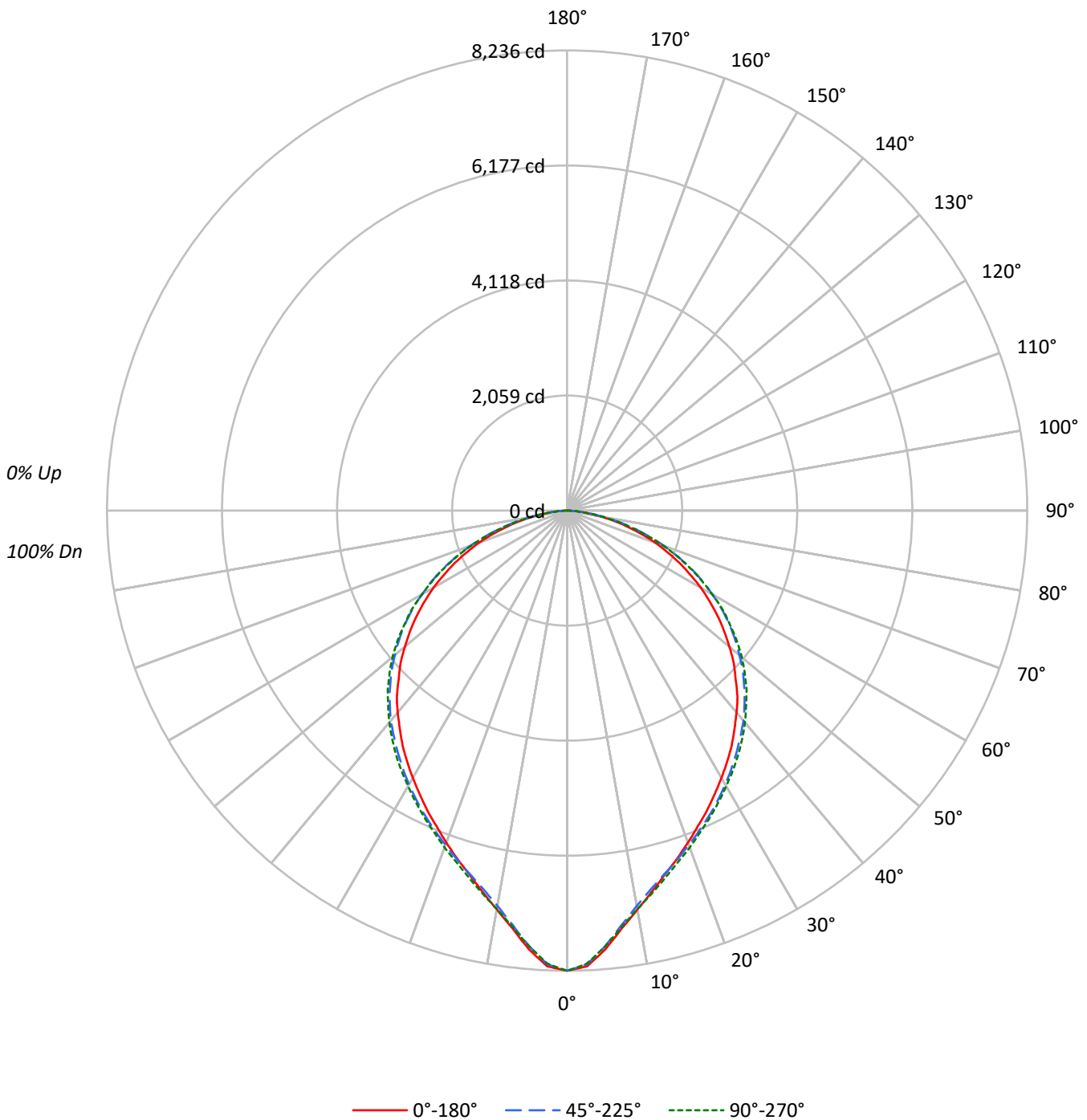
Lumens per Lamp: N/A
Luminaire Lumens: 19130.0 lumens
Efficiency: N/A
Efficacy: 88.6 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	11081	11081	11081
5°	10640	10565	10565
10°	9903	9812	9888
15°	9396	9379	9471
20°	9052	9117	9187
25°	8793	8936	8988
30°	8581	8792	8847
35°	8434	8680	8768
40°	8284	8621	8693
45°	8114	8536	8638
50°	7935	8430	8542
55°	7714	8308	8342
60°	7437	8080	8063
65°	7049	7770	7718
70°	6581	7246	7157
75°	5809	6419	6355
80°	4720	5230	4974
85°	3273	3335	3208



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	727.7	3.8
10°-20°	1906.2	10.0
20°-30°	2772.0	14.5
30°-40°	3298.6	17.2
40°-50°	3425.1	17.9
50°-60°	3102.9	16.2
60°-70°	2341.4	12.2
70°-80°	1275.7	6.7
80°-90°	280.3	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°	5405.9	28.3
0°-40°	8704.5	45.5
0°-60°	15232.4	79.6
0°-90°	19130.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19130.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8236	8236	8236	8236	8236	
5°	7878	7859	7822	7818	7822	731
15°	6746	6729	6734	6779	6799	1904
25°	5923	5972	6019	6069	6054	2729
35°	5134	5196	5285	5365	5338	3210
45°	4264	4340	4486	4536	4540	3296
55°	3288	3367	3542	3566	3556	2936
65°	2214	2278	2441	2437	2424	2189
75°	1117	1163	1235	1243	1222	1190
85°	212	214	216	214	208	267
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8235.8	8235.8	8235.8	8235.8	8235.8
2.5°	8163.7	8155.5	8128.7	8118.4	8116.3
5°	7877.7	7859.2	7822.1	7818.0	7822.1
7.5°	7536.1	7515.4	7478.5	7492.9	7511.4
10°	7248.0	7196.5	7182.0	7202.6	7237.6
12.5°	6990.6	6949.5	6937.1	6990.6	7015.5
15°	6745.7	6729.3	6733.5	6778.8	6799.3
17.5°	6533.9	6523.6	6550.3	6585.3	6595.6
20°	6321.9	6342.5	6367.2	6404.3	6416.5
22.5°	6114.1	6153.1	6194.4	6243.7	6227.2
25°	5922.7	5972.0	6019.4	6068.8	6054.4
27.5°	5718.9	5776.5	5842.4	5895.9	5875.3
30°	5523.3	5595.4	5659.3	5725.0	5694.2
32.5°	5330.0	5397.9	5474.0	5554.3	5519.3
35°	5134.5	5196.2	5284.7	5365.0	5338.3
37.5°	4918.4	4994.5	5095.3	5165.3	5146.9
40°	4716.7	4786.7	4908.1	4953.4	4949.2
42.5°	4513.0	4570.7	4698.2	4749.6	4741.4
45°	4264.0	4340.1	4486.2	4535.7	4539.7
47.5°	4043.8	4107.7	4264.0	4303.0	4311.3
50°	3790.7	3871.0	4027.4	4074.6	4080.9
52.5°	3541.6	3628.0	3788.6	3821.5	3827.8
55°	3288.5	3366.7	3541.6	3566.4	3556.1
57.5°	3023.1	3117.7	3278.3	3290.6	3300.9
60°	2763.7	2846.1	3002.5	3018.9	2996.3
62.5°	2481.9	2566.2	2726.8	2730.8	2712.3
65°	2214.2	2278.1	2440.6	2436.6	2424.1
67.5°	1934.4	2012.5	2132.0	2136.0	2125.9
70°	1673.0	1726.5	1841.8	1843.9	1819.2
72.5°	1391.2	1448.8	1541.3	1529.0	1522.9
75°	1117.4	1162.7	1234.8	1243.0	1222.4
77.5°	866.4	899.3	952.8	946.7	924.0
80°	609.1	635.9	675.0	666.8	642.0
82.5°	388.9	405.5	430.1	419.8	409.5
85°	212.0	213.9	216.0	213.9	207.8
87.5°	78.2	80.3	80.3	78.2	72.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)