

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: P489907

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-5HI-40-120-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: P489907
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-40-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

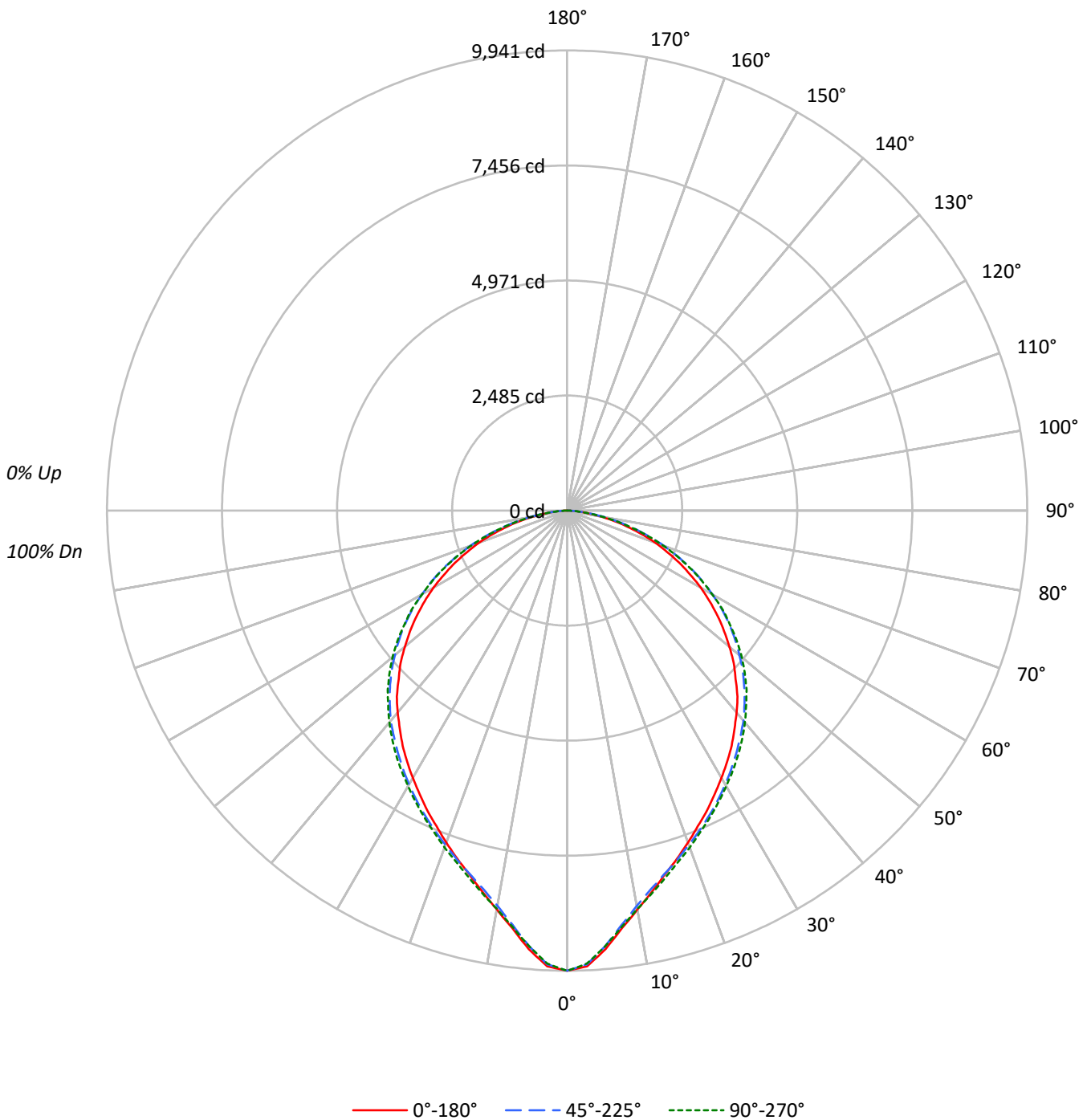
Lumens per Lamp: N/A
Luminaire Lumens: 23090.9 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	13376	13376	13376
5°	12843	12752	12752
10°	11953	11844	11936
15°	11342	11322	11432
20°	10926	11004	11090
25°	10613	10787	10849
30°	10358	10613	10678
35°	10180	10478	10584
40°	10000	10406	10493
45°	9794	10304	10427
50°	9577	10176	10311
55°	9311	10028	10069
60°	8977	9752	9732
65°	8509	9379	9316
70°	7944	8746	8639
75°	7012	7748	7670
80°	5697	6313	6004
85°	3951	4026	3872



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	878.4	3.8
10°-20°	2300.9	10.0
20°-30°	3345.9	14.5
30°-40°	3981.5	17.2
40°-50°	4134.2	17.9
50°-60°	3745.4	16.2
60°-70°	2826.3	12.2
70°-80°	1539.9	6.7
80°-90°	338.4	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°	6525.2	28.3
0°-40°	10506.7	45.5
0°-60°	18386.4	79.6
0°-90°	23090.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	23090.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9941	9941	9941	9941	9941	
5°	9509	9486	9442	9437	9442	882
15°	8142	8123	8128	8182	8207	2298
25°	7149	7208	7266	7325	7308	3294
35°	6198	6272	6379	6476	6444	3875
45°	5147	5239	5415	5475	5480	3978
55°	3969	4064	4275	4305	4292	3544
65°	2673	2750	2946	2941	2926	2642
75°	1349	1404	1490	1500	1476	1437
85°	256	258	261	258	251	323
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9941.0	9941.0	9941.0	9941.0	9941.0
2.5°	9854.0	9844.1	9811.8	9799.3	9796.8
5°	9508.8	9486.4	9441.6	9436.8	9441.6
7.5°	9096.4	9071.5	9026.9	9044.3	9066.6
10°	8748.7	8686.6	8669.1	8694.0	8736.2
12.5°	8438.1	8388.4	8373.4	8438.1	8468.0
15°	8142.5	8122.6	8127.7	8182.4	8207.1
17.5°	7886.8	7874.3	7906.6	7948.8	7961.3
20°	7630.8	7655.8	7685.5	7730.3	7745.1
22.5°	7380.0	7427.1	7476.9	7536.5	7516.6
25°	7149.0	7208.5	7265.8	7325.3	7308.0
27.5°	6903.0	6972.5	7052.1	7116.7	7091.8
30°	6667.0	6754.0	6831.0	6910.4	6873.2
32.5°	6433.6	6515.6	6607.4	6704.3	6662.1
35°	6197.6	6272.1	6379.0	6475.9	6443.6
37.5°	5936.8	6028.7	6150.3	6234.7	6212.6
40°	5693.4	5777.8	5924.4	5979.0	5974.0
42.5°	5447.4	5517.1	5671.0	5733.1	5723.1
45°	5146.9	5238.8	5415.1	5474.8	5479.7
47.5°	4881.1	4958.1	5146.9	5194.0	5203.9
50°	4575.5	4672.5	4861.2	4918.2	4925.8
52.5°	4274.9	4379.2	4573.0	4612.7	4620.3
55°	3969.3	4063.7	4274.9	4304.9	4292.4
57.5°	3649.0	3763.3	3957.1	3971.9	3984.3
60°	3335.9	3435.4	3624.1	3644.0	3616.7
62.5°	2995.7	3097.5	3291.4	3296.2	3273.8
65°	2672.7	2749.8	2945.9	2941.1	2926.1
67.5°	2334.9	2429.2	2573.5	2578.3	2566.1
70°	2019.4	2084.0	2223.2	2225.7	2195.9
72.5°	1679.3	1748.7	1860.4	1845.6	1838.2
75°	1348.8	1403.5	1490.5	1500.4	1475.5
77.5°	1045.8	1085.5	1150.1	1142.7	1115.3
80°	735.2	767.5	814.8	804.9	774.9
82.5°	469.4	489.4	519.2	506.8	494.3
85°	255.9	258.2	260.8	258.2	250.8
87.5°	94.4	96.9	96.9	94.4	87.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)