

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: P489890

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-4STD-30-120-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: P489890
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-LD4-4STD-30-120-EDD-90
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

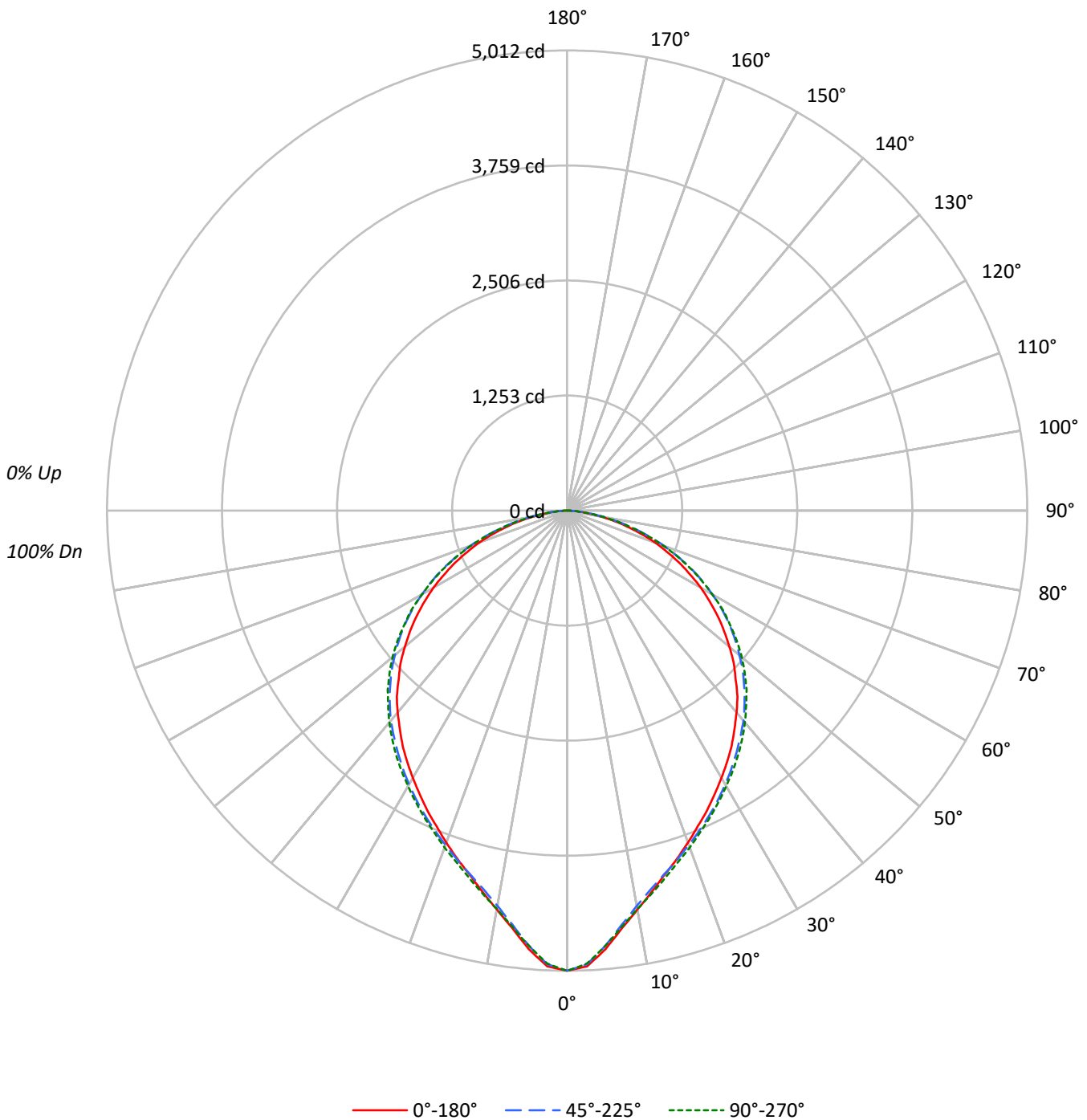
Lumens per Lamp: N/A
Luminaire Lumens: 11641.3 lumens
Efficiency: N/A
Efficacy: 87.4 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 133.2
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°	6743	6743	6743
5°	6475	6429	6429
10°	6026	5971	6017
15°	5718	5708	5763
20°	5508	5548	5591
25°	5351	5438	5470
30°	5222	5351	5384
35°	5132	5282	5336
40°	5041	5246	5290
45°	4937	5195	5257
50°	4829	5130	5198
55°	4694	5056	5076
60°	4526	4917	4907
65°	4290	4728	4697
70°	4005	4409	4355
75°	3535	3906	3867
80°	2872	3183	3027
85°	1991	2030	1953



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	442.9	3.8
10°-20°	1160.0	10.0
20°-30°	1686.8	14.5
30°-40°	2007.3	17.2
40°-50°	2084.3	17.9
50°-60°	1888.2	16.2
60°-70°	1424.9	12.2
70°-80°	776.3	6.7
80°-90°	170.6	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°	3289.7	28.3
0°-40°	5297.0	45.5
0°-60°	9269.5	79.6
0°-90°	11641.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11641.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5012	5012	5012	5012	5012	
5°	4794	4783	4760	4758	4760	445
15°	4105	4095	4098	4125	4138	1159
25°	3604	3634	3663	3693	3684	1661
35°	3124	3162	3216	3265	3248	1953
45°	2595	2641	2730	2760	2763	2006
55°	2001	2049	2155	2170	2164	1787
65°	1347	1386	1485	1483	1475	1332
75°	680	708	751	756	744	724
85°	129	130	132	130	126	163
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5011.8	5011.8	5011.8	5011.8	5011.8
2.5°	4967.9	4962.9	4946.6	4940.3	4939.1
5°	4793.9	4782.6	4760.0	4757.6	4760.0
7.5°	4586.0	4573.4	4550.9	4559.7	4571.0
10°	4410.6	4379.3	4370.5	4383.1	4404.4
12.5°	4254.1	4229.0	4221.5	4254.1	4269.2
15°	4105.0	4095.0	4097.6	4125.1	4137.6
17.5°	3976.1	3969.8	3986.1	4007.4	4013.7
20°	3847.1	3859.7	3874.7	3897.2	3904.7
22.5°	3720.6	3744.4	3769.5	3799.5	3789.5
25°	3604.2	3634.2	3663.0	3693.1	3684.3
27.5°	3480.2	3515.2	3555.3	3587.9	3575.3
30°	3361.2	3405.0	3443.9	3483.9	3465.2
32.5°	3243.5	3284.8	3331.1	3380.0	3358.7
35°	3124.5	3162.1	3216.0	3264.8	3248.5
37.5°	2993.1	3039.4	3100.7	3143.3	3132.1
40°	2870.3	2912.9	2986.8	3014.3	3011.8
42.5°	2746.3	2781.4	2859.0	2890.3	2885.3
45°	2594.8	2641.1	2730.0	2760.1	2762.6
47.5°	2460.8	2499.7	2594.8	2618.6	2623.6
50°	2306.8	2355.6	2450.8	2479.5	2483.4
52.5°	2155.2	2207.8	2305.5	2325.5	2329.3
55°	2001.2	2048.7	2155.2	2170.3	2164.0
57.5°	1839.7	1897.3	1995.0	2002.4	2008.7
60°	1681.8	1731.9	1827.1	1837.1	1823.4
62.5°	1510.3	1561.6	1659.3	1661.8	1650.5
65°	1347.4	1386.3	1485.2	1482.7	1475.2
67.5°	1177.1	1224.7	1297.4	1299.9	1293.7
70°	1018.1	1050.7	1120.8	1122.1	1107.1
72.5°	846.6	881.6	937.9	930.5	926.8
75°	680.0	707.6	751.4	756.4	743.9
77.5°	527.2	547.3	579.8	576.1	562.3
80°	370.7	386.9	410.8	405.8	390.7
82.5°	236.6	246.8	261.8	255.5	249.2
85°	129.0	130.2	131.5	130.2	126.5
87.5°	47.6	48.9	48.9	47.6	43.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)