

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: P489923

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-5STD-20-120-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: P489923
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-LD4-5STD-20-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

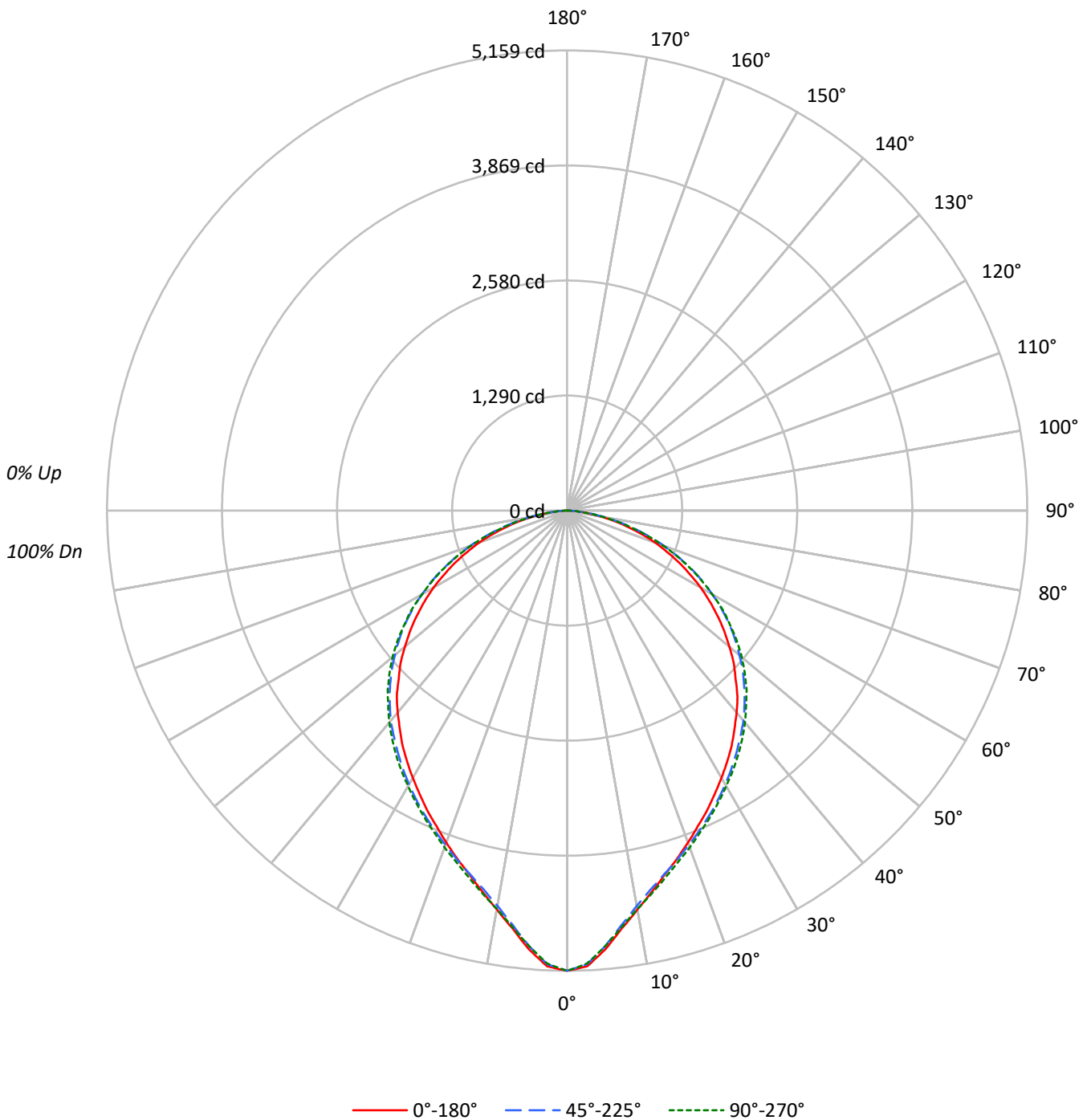
Lumens per Lamp: N/A
Luminaire Lumens: 11983.7 lumens
Efficiency: N/A
Efficacy: 72.0 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 166.5
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°	6942	6942	6942
5°	6665	6618	6618
10°	6203	6147	6194
15°	5886	5876	5933
20°	5670	5711	5755
25°	5508	5598	5631
30°	5376	5508	5542
35°	5283	5438	5493
40°	5190	5400	5446
45°	5083	5347	5411
50°	4971	5281	5351
55°	4832	5204	5226
60°	4659	5061	5051
65°	4416	4868	4835
70°	4123	4539	4483
75°	3639	4021	3981
80°	2957	3277	3116
85°	2050	2089	2010



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	455.9	3.8
10°-20°	1194.1	10.0
20°-30°	1736.5	14.5
30°-40°	2066.3	17.2
40°-50°	2145.6	17.9
50°-60°	1943.8	16.2
60°-70°	1466.8	12.2
70°-80°	799.2	6.7
80°-90°	175.6	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°	3386.5	28.3
0°-40°	5452.8	45.5
0°-60°	9542.1	79.6
0°-90°	11983.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11983.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5159	5159	5159	5159	5159	
5°	4935	4923	4900	4898	4900	458
15°	4226	4216	4218	4246	4259	1193
25°	3710	3741	3771	3802	3793	1710
35°	3216	3255	3310	3361	3344	2011
45°	2671	2719	2810	2841	2844	2065
55°	2060	2109	2219	2234	2228	1839
65°	1387	1427	1529	1526	1519	1371
75°	700	728	774	779	766	746
85°	133	134	135	134	130	168
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5159.2	5159.2	5159.2	5159.2	5159.2
2.5°	5114.0	5108.9	5092.1	5085.6	5084.3
5°	4934.9	4923.2	4900.0	4897.5	4900.0
7.5°	4720.9	4707.9	4684.8	4693.8	4705.4
10°	4540.4	4508.2	4499.1	4512.0	4533.9
12.5°	4379.2	4353.4	4345.6	4379.2	4394.7
15°	4225.8	4215.5	4218.1	4246.5	4259.3
17.5°	4093.1	4086.6	4103.4	4125.3	4131.7
20°	3960.2	3973.2	3988.6	4011.9	4019.5
22.5°	3830.1	3854.5	3880.4	3911.3	3901.0
25°	3710.2	3741.1	3770.8	3801.7	3792.7
27.5°	3582.5	3618.6	3659.9	3693.4	3680.5
30°	3460.0	3505.2	3545.2	3586.4	3567.1
32.5°	3338.9	3381.4	3429.1	3479.4	3457.5
35°	3216.4	3255.1	3310.5	3360.8	3344.1
37.5°	3081.1	3128.8	3191.9	3235.7	3224.2
40°	2954.7	2998.6	3074.6	3103.0	3100.4
42.5°	2827.1	2863.2	2943.1	2975.3	2970.2
45°	2671.1	2718.8	2810.3	2841.3	2843.8
47.5°	2533.2	2573.2	2671.1	2695.6	2700.7
50°	2374.6	2424.9	2522.9	2552.5	2556.4
52.5°	2218.6	2272.7	2373.3	2393.9	2397.8
55°	2060.0	2109.0	2218.6	2234.1	2227.7
57.5°	1893.8	1953.1	2053.7	2061.3	2067.8
60°	1731.3	1782.9	1880.8	1891.1	1877.0
62.5°	1554.7	1607.6	1708.1	1710.7	1699.1
65°	1387.1	1427.1	1528.9	1526.4	1518.6
67.5°	1211.7	1260.7	1335.6	1338.1	1331.7
70°	1048.0	1081.6	1153.8	1155.1	1139.6
72.5°	871.5	907.5	965.5	957.8	954.0
75°	700.0	728.4	773.5	778.7	765.8
77.5°	542.8	563.4	596.9	593.1	578.8
80°	381.6	398.3	422.9	417.7	402.2
82.5°	243.6	254.0	269.5	263.0	256.5
85°	132.8	134.0	135.3	134.0	130.2
87.5°	49.0	50.3	50.3	49.0	45.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)