

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: P489898

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-5HI-20-120-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: P489898
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-20-120-EDD-90
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

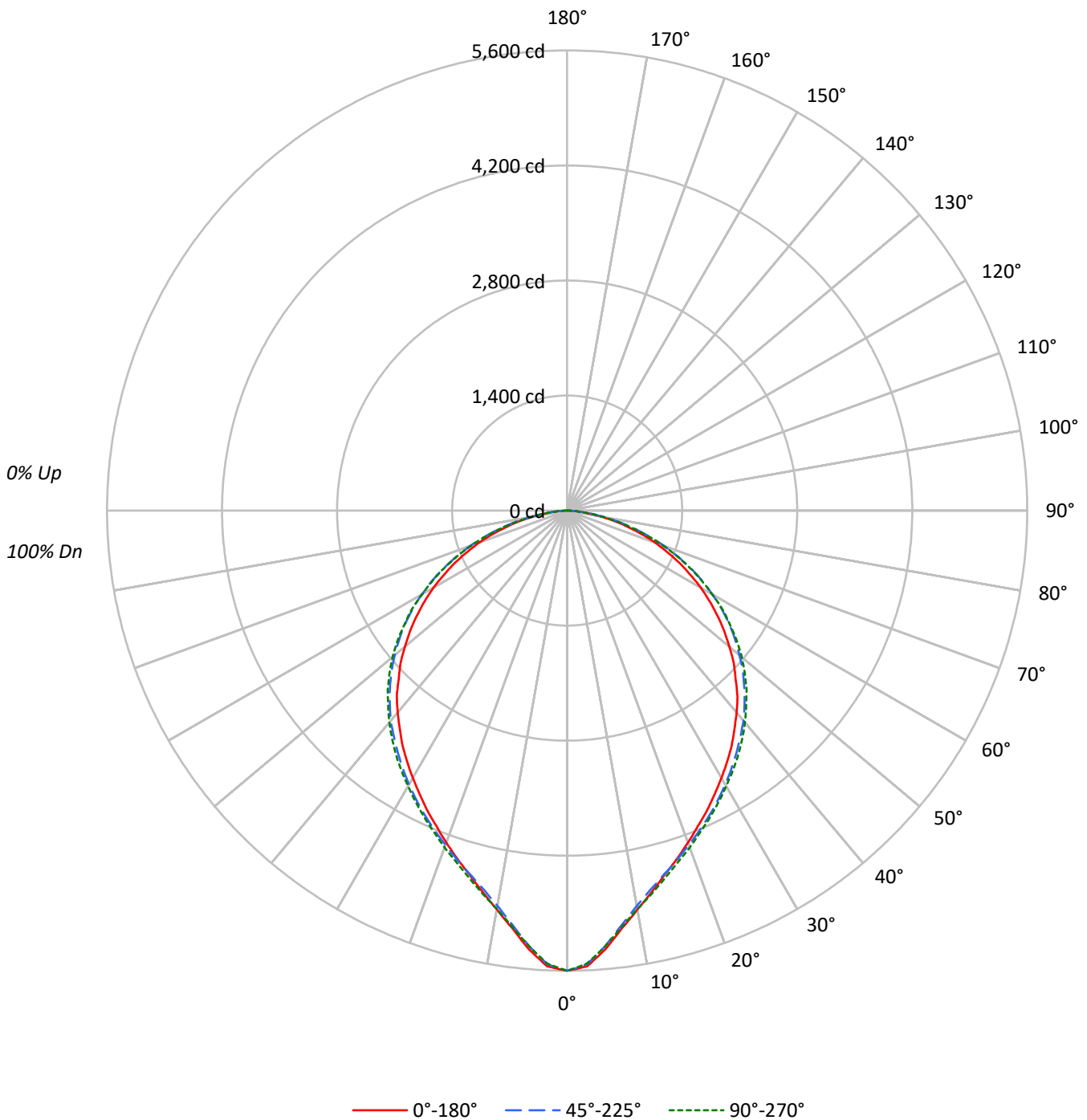
Lumens per Lamp: N/A
Luminaire Lumens: 13008.4 lumens
Efficiency: N/A
Efficacy: 60.2 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	7535	7535	7535
5°	7235	7184	7184
10°	6734	6672	6724
15°	6390	6378	6440
20°	6155	6199	6247
25°	5979	6077	6112
30°	5835	5979	6016
35°	5735	5903	5962
40°	5634	5862	5911
45°	5517	5805	5874
50°	5396	5732	5809
55°	5246	5649	5673
60°	5057	5494	5483
65°	4794	5284	5248
70°	4475	4927	4867
75°	3950	4365	4321
80°	3209	3556	3382
85°	2226	2268	2181



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	494.9	3.8
10°-20°	1296.2	10.0
20°-30°	1884.9	14.5
30°-40°	2243.0	17.2
40°-50°	2329.1	17.9
50°-60°	2110.0	16.2
60°-70°	1592.2	12.2
70°-80°	867.5	6.7
80°-90°	190.6	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°	3676.0	28.3
0°-40°	5919.0	45.5
0°-60°	10358.1	79.6
0°-90°	13008.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13008.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5600	5600	5600	5600	5600	
5°	5357	5344	5319	5316	5319	497
15°	4587	4576	4579	4610	4624	1295
25°	4027	4061	4093	4127	4117	1856
35°	3491	3533	3594	3648	3630	2183
45°	2900	2951	3051	3084	3087	2241
55°	2236	2289	2408	2425	2418	1997
65°	1506	1549	1660	1657	1648	1489
75°	760	791	840	845	831	809
85°	144	146	147	146	141	182
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5600.3	5600.3	5600.3	5600.3	5600.3
2.5°	5551.3	5545.7	5527.5	5520.5	5519.1
5°	5356.8	5344.2	5319.0	5316.3	5319.0
7.5°	5124.5	5110.5	5085.4	5095.1	5107.7
10°	4928.6	4893.6	4883.8	4897.8	4921.6
12.5°	4753.6	4725.7	4717.2	4753.6	4770.5
15°	4587.1	4575.9	4578.8	4609.6	4623.5
17.5°	4443.1	4436.0	4454.2	4478.0	4485.0
20°	4298.9	4312.9	4329.7	4354.9	4363.2
22.5°	4157.6	4184.1	4212.2	4245.7	4234.5
25°	4027.4	4061.0	4093.2	4126.8	4117.0
27.5°	3888.9	3928.0	3972.8	4009.2	3995.2
30°	3755.9	3804.9	3848.3	3893.0	3872.1
32.5°	3624.4	3670.6	3722.3	3776.9	3753.1
35°	3491.4	3533.4	3593.6	3648.2	3630.0
37.5°	3344.5	3396.3	3464.8	3512.4	3499.9
40°	3207.4	3255.0	3337.5	3368.3	3365.5
42.5°	3068.8	3108.1	3194.8	3229.8	3224.2
45°	2899.5	2951.3	3050.6	3084.3	3087.0
47.5°	2749.8	2793.2	2899.5	2926.1	2931.7
50°	2577.7	2632.3	2738.6	2770.7	2775.0
52.5°	2408.3	2467.0	2576.2	2598.6	2602.9
55°	2236.2	2289.3	2408.3	2425.2	2418.2
57.5°	2055.7	2120.1	2229.3	2237.6	2244.6
60°	1879.3	1935.3	2041.7	2052.9	2037.5
62.5°	1687.7	1745.0	1854.2	1856.9	1844.3
65°	1505.7	1549.1	1659.6	1656.9	1648.4
67.5°	1315.4	1368.5	1449.8	1452.5	1445.6
70°	1137.6	1174.0	1252.4	1253.9	1237.1
72.5°	946.0	985.2	1048.1	1039.7	1035.6
75°	759.9	790.7	839.7	845.3	831.2
77.5°	589.2	611.5	647.9	643.8	628.3
80°	414.2	432.4	459.0	453.4	436.5
82.5°	264.4	275.7	292.5	285.5	278.5
85°	144.2	145.5	146.9	145.5	141.3
87.5°	53.2	54.6	54.6	53.2	49.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)