

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: P489542

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-5HI-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: P489542
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-115-8)
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-A12125-LD4-5HI-30-120-EDD-90
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

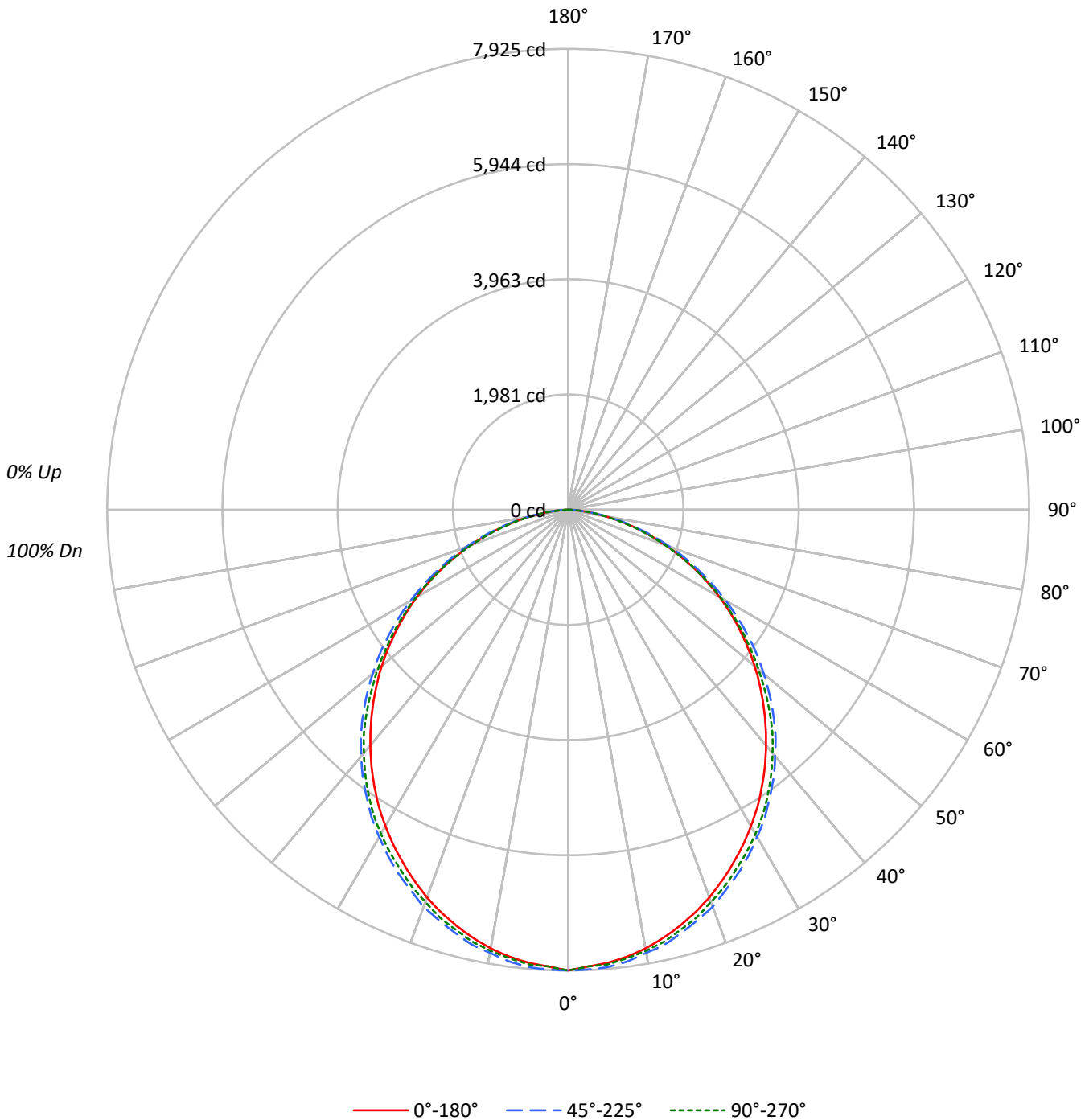
Lumens per Lamp: N/A
Luminaire Lumens: 20835.3 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	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					100			
1	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85					85			
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71					71			
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60					60			
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51					51			
5	77	64	55	48	75	63	54	48	61	53	48	59	52	47	57	51	47	45					45			
6	71	58	49	42	69	57	48	42	55	47	42	53	47	41	52	46	41	39					39			
7	66	52	44	38	64	51	43	37	50	43	37	49	42	37	47	41	37	35					35			
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31					31			
9	57	44	36	30	56	43	35	30	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10663	10663	10663
5°	10564	10664	10598
10°	10468	10574	10523
15°	10323	10489	10416
20°	10160	10402	10276
25°	9962	10251	10134
30°	9761	10092	10000
35°	9541	9919	9827
40°	9293	9721	9598
45°	9032	9488	9309
50°	8761	9184	8944
55°	8443	8838	8567
60°	8083	8419	8159
65°	7618	7910	7623
70°	7010	7292	6932
75°	6172	6451	6078
80°	5016	5233	4958
85°	3492	3722	3633



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	746.4	3.6
10°-20°	2115.1	10.2
20°-30°	3154.5	15.1
30°-40°	3738.2	17.9
40°-50°	3782.4	18.2
50°-60°	3303.4	15.9
60°-70°	2414.0	11.6
70°-80°	1284.4	6.2
80°-90°	296.9	1.4
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°	6016.0	28.9
0°-40°	9754.1	46.8
0°-60°	16840.0	80.8
0°-90°	20835.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	20835.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7925	7925	7925	7925	7925	
5°	7822	7837	7895	7913	7847	742
15°	7411	7460	7530	7576	7478	2089
25°	6710	6793	6905	6931	6826	3092
35°	5809	5900	6039	6081	5983	3633
45°	4747	4831	4986	4990	4892	3662
55°	3599	3672	3768	3713	3652	3217
65°	2393	2442	2484	2435	2394	2368
75°	1187	1215	1241	1196	1169	1262
85°	226	230	241	244	235	286
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7925.0	7925.0	7925.0	7925.0	7925.0
2.5°	7863.1	7888.7	7915.1	7926.7	7862.3
5°	7821.8	7836.7	7895.3	7913.4	7846.6
7.5°	7754.1	7776.4	7833.4	7841.6	7777.2
10°	7661.6	7701.2	7739.2	7780.5	7702.1
12.5°	7543.5	7597.2	7661.6	7669.0	7609.6
15°	7410.6	7460.1	7530.3	7575.7	7477.5
17.5°	7262.0	7309.9	7400.7	7408.9	7349.5
20°	7096.0	7155.5	7264.5	7283.4	7176.9
22.5°	6907.8	6987.8	7078.7	7096.8	7018.4
25°	6710.4	6793.0	6905.3	6930.9	6826.0
27.5°	6504.0	6583.3	6709.6	6727.8	6639.4
30°	6282.7	6357.0	6495.7	6526.3	6436.3
32.5°	6058.1	6132.4	6286.0	6311.6	6224.1
35°	5808.8	5899.6	6039.1	6081.2	5983.0
37.5°	5554.4	5642.8	5801.3	5839.3	5733.6
40°	5291.0	5378.6	5534.6	5566.0	5464.4
42.5°	5021.9	5109.4	5276.2	5281.1	5196.9
45°	4746.9	4831.1	4986.4	4990.5	4892.2
47.5°	4467.8	4552.9	4691.6	4675.9	4583.4
50°	4185.4	4266.4	4387.7	4356.4	4273.0
52.5°	3893.1	3971.6	4086.4	4035.2	3956.7
55°	3599.2	3671.9	3767.6	3713.1	3652.0
57.5°	3302.8	3376.3	3449.7	3394.4	3341.6
60°	3003.9	3068.3	3128.6	3072.4	3031.9
62.5°	2700.0	2755.3	2807.4	2753.7	2715.7
65°	2392.9	2441.6	2484.5	2435.0	2394.5
67.5°	2087.4	2128.6	2168.3	2117.1	2075.0
70°	1781.8	1817.4	1853.7	1800.8	1762.0
72.5°	1480.5	1511.8	1544.0	1492.9	1459.0
75°	1187.3	1214.6	1241.0	1195.6	1169.2
77.5°	907.4	930.6	948.7	919.8	894.2
80°	647.3	664.7	675.4	663.9	639.9
82.5°	416.1	428.5	434.3	433.5	417.8
85°	226.2	230.4	241.1	243.6	235.3
87.5°	87.5	93.3	95.8	103.2	95.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)