

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: P489410

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-1LO-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: P489410
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-LD4-1LO-30-120-EDD-90
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

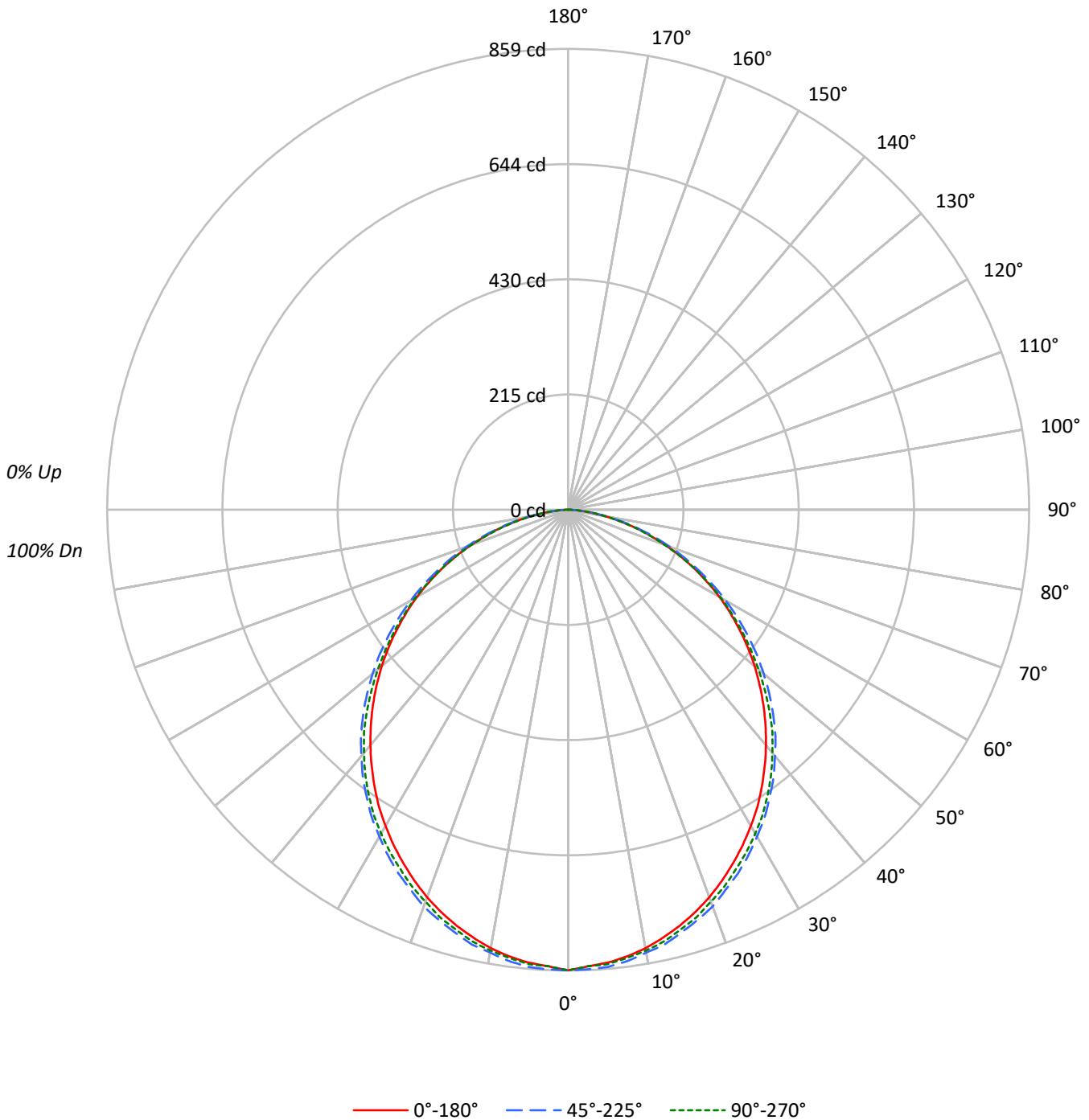
Lumens per Lamp: N/A
Luminaire Lumens: 2257.2 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
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	105	100	97	106	102	98	95	98	95	92		94	92	89		91	88	87	85
2	99	91	85	79	97	90	83	78	86	81	76		83	78	75		80	76	73	71
3	91	80	72	66	88	79	71	65	76	70	64		73	68	63		71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55		65	59	54		63	58	54	51
5	77	64	55	48	75	63	54	48	61	53	48		59	52	47		57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42		53	47	41		52	46	41	39
7	66	52	44	38	64	51	43	37	50	43	37		49	42	37		47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33		45	38	33		43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30		41	35	30		40	34	30	28
10	54	41	33	27	52	40	32	27	39	32	27		38	32	27		37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1155	1155	1155
5°	1145	1155	1148
10°	1134	1145	1140
15°	1118	1136	1128
20°	1101	1127	1113
25°	1079	1111	1098
30°	1057	1093	1083
35°	1034	1075	1065
40°	1007	1053	1040
45°	979	1028	1008
50°	949	995	969
55°	915	958	928
60°	876	912	884
65°	825	857	826
70°	759	790	751
75°	669	699	659
80°	543	567	537
85°	378	403	394



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.9	3.6
10°-20°	229.1	10.2
20°-30°	341.8	15.1
30°-40°	405.0	17.9
40°-50°	409.8	18.2
50°-60°	357.9	15.9
60°-70°	261.5	11.6
70°-80°	139.1	6.2
80°-90°	32.2	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°	651.7	28.9
0°-40°	1056.7	46.8
0°-60°	1824.4	80.8
0°-90°	2257.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2257.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	859	859	859	859	859	
5°	847	849	855	857	850	80
15°	803	808	816	821	810	226
25°	727	736	748	751	740	335
35°	629	639	654	659	648	394
45°	514	523	540	541	530	397
55°	390	398	408	402	396	349
65°	259	264	269	264	259	256
75°	129	132	134	130	127	137
85°	24	25	26	26	26	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	858.6	858.6	858.6	858.6	858.6
2.5°	851.8	854.6	857.5	858.7	851.8
5°	847.4	849.0	855.3	857.3	850.1
7.5°	840.0	842.5	848.6	849.5	842.5
10°	830.0	834.3	838.4	842.9	834.4
12.5°	817.2	823.0	830.0	830.8	824.4
15°	802.8	808.2	815.8	820.7	810.1
17.5°	786.7	791.9	801.8	802.7	796.2
20°	768.7	775.2	787.0	789.1	777.5
22.5°	748.4	757.0	766.9	768.8	760.3
25°	727.0	735.9	748.1	750.9	739.5
27.5°	704.6	713.2	726.9	728.9	719.3
30°	680.6	688.7	703.7	707.0	697.3
32.5°	656.3	664.4	681.0	683.8	674.3
35°	629.3	639.1	654.3	658.8	648.2
37.5°	601.7	611.3	628.5	632.6	621.2
40°	573.2	582.7	599.6	603.0	592.0
42.5°	544.0	553.5	571.6	572.1	563.0
45°	514.3	523.4	540.2	540.6	530.0
47.5°	484.0	493.2	508.3	506.6	496.5
50°	453.4	462.2	475.3	471.9	462.9
52.5°	421.8	430.3	442.7	437.2	428.7
55°	389.9	397.8	408.2	402.3	395.6
57.5°	357.8	365.8	373.7	367.7	362.0
60°	325.4	332.4	338.9	332.9	328.5
62.5°	292.5	298.5	304.1	298.3	294.2
65°	259.2	264.5	269.2	263.8	259.4
67.5°	226.1	230.6	234.9	229.4	224.8
70°	193.0	196.9	200.8	195.1	190.9
72.5°	160.4	163.8	167.3	161.7	158.1
75°	128.6	131.6	134.4	129.5	126.7
77.5°	98.3	100.8	102.8	99.6	96.9
80°	70.1	72.0	73.2	71.9	69.3
82.5°	45.1	46.4	47.1	47.0	45.3
85°	24.5	25.0	26.1	26.4	25.5
87.5°	9.5	10.1	10.4	11.2	10.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)