

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: P488350

Luminaire Tested: **CLM-12-2-INS-A12125-LD4-2HI-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: P488350
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-12-2-INS-A12125-LD4-2HI-20-120-EDD-90
Description: 1X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

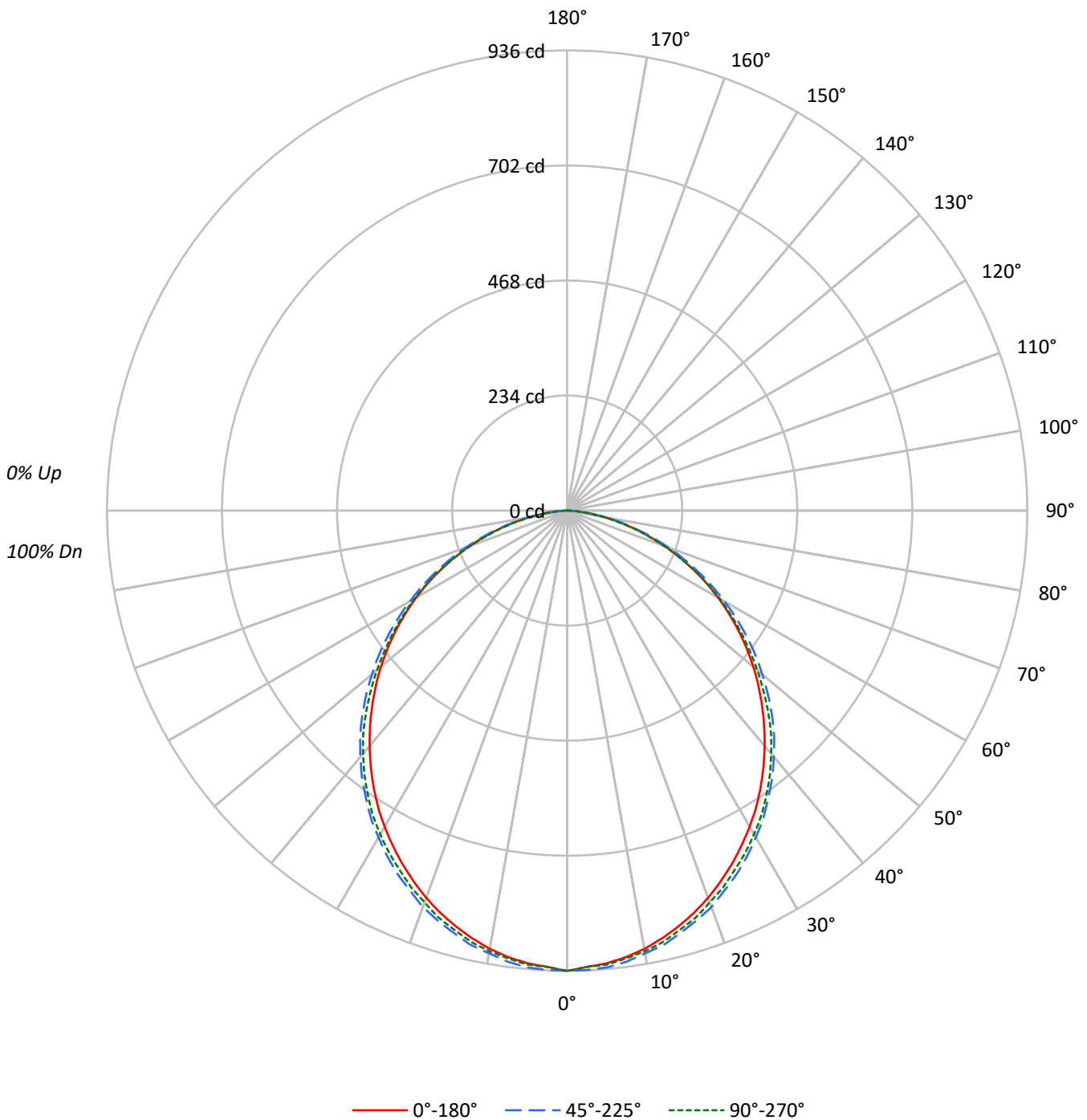
Lumens per Lamp: N/A
Luminaire Lumens: 2461.5 lumens
Efficiency: N/A
Efficacy: 57.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 43.2
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	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°	5039	5039	5039
5°	4992	5039	5008
10°	4946	4997	4973
15°	4878	4957	4922
20°	4801	4915	4856
25°	4708	4844	4789
30°	4612	4769	4726
35°	4509	4688	4644
40°	4392	4594	4536
45°	4268	4484	4399
50°	4140	4340	4227
55°	3990	4176	4049
60°	3820	3978	3856
65°	3600	3738	3603
70°	3312	3446	3276
75°	2917	3048	2872
80°	2371	2473	2343
85°	1649	1760	1717



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.2	3.6
10°-20°	249.9	10.2
20°-30°	372.7	15.1
30°-40°	441.6	17.9
40°-50°	446.9	18.2
50°-60°	390.3	15.9
60°-70°	285.2	11.6
70°-80°	151.7	6.2
80°-90°	35.1	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°	710.7	28.9
0°-40°	1152.4	46.8
0°-60°	1989.5	80.8
0°-90°	2461.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2461.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	936	936	936	936	936	
5°	924	926	933	935	927	88
15°	876	881	890	895	883	247
25°	793	802	816	819	806	365
35°	686	697	714	718	707	429
45°	561	571	589	590	578	433
55°	425	434	445	439	432	380
65°	283	288	294	288	283	280
75°	140	144	147	141	138	149
85°	27	27	28	29	28	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	936.3	936.3	936.3	936.3	936.3
2.5°	929.0	932.0	935.1	936.5	928.9
5°	924.1	925.8	932.8	934.9	927.0
7.5°	916.1	918.7	925.4	926.4	918.8
10°	905.1	909.8	914.3	919.2	909.9
12.5°	891.2	897.5	905.1	906.0	899.0
15°	875.5	881.3	889.6	895.0	883.4
17.5°	857.9	863.6	874.3	875.3	868.3
20°	838.3	845.4	858.2	860.5	847.9
22.5°	816.1	825.5	836.3	838.4	829.2
25°	792.8	802.5	815.8	818.8	806.4
27.5°	768.4	777.8	792.7	794.8	784.4
30°	742.2	751.0	767.4	771.0	760.4
32.5°	715.7	724.5	742.6	745.7	735.3
35°	686.3	697.0	713.5	718.4	706.8
37.5°	656.2	666.6	685.4	689.9	677.4
40°	625.1	635.4	653.9	657.6	645.6
42.5°	593.3	603.6	623.3	623.9	614.0
45°	560.8	570.8	589.1	589.6	578.0
47.5°	527.8	537.9	554.3	552.4	541.5
50°	494.5	504.0	518.4	514.7	504.8
52.5°	459.9	469.2	482.8	476.7	467.5
55°	425.2	433.8	445.1	438.7	431.5
57.5°	390.2	398.9	407.6	401.0	394.8
60°	354.9	362.5	369.6	363.0	358.2
62.5°	319.0	325.5	331.7	325.3	320.8
65°	282.7	288.4	293.5	287.7	282.9
67.5°	246.6	251.5	256.2	250.1	245.1
70°	210.5	214.7	219.0	212.8	208.2
72.5°	174.9	178.6	182.4	176.4	172.4
75°	140.3	143.5	146.6	141.2	138.1
77.5°	107.2	109.9	112.1	108.7	105.6
80°	76.5	78.5	79.8	78.4	75.6
82.5°	49.2	50.6	51.3	51.2	49.4
85°	26.7	27.2	28.5	28.8	27.8
87.5°	10.3	11.0	11.3	12.2	11.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)