

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: P490043

Luminaire Tested: **CLP-12-2-INS-A19156-LD4-2HI-20-120-EDD**

Issue Date: 3/12/2021

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: P490043
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-115-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/12/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: CLP-12-2-INS-A19156-LD4-2HI-20-120-EDD
Description: 1X2 CLP LED LUMINAIRE WITH A19156 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

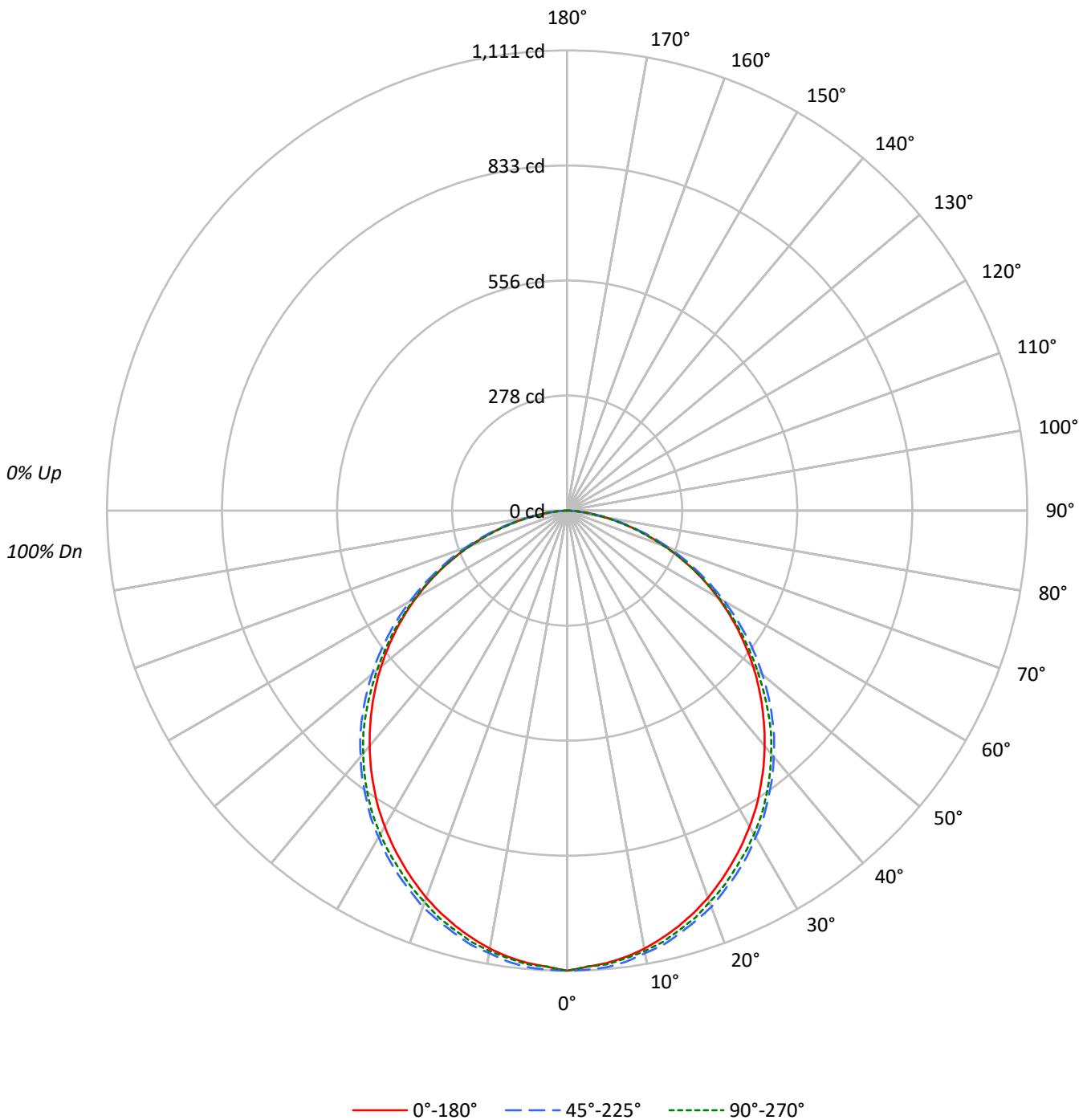
Lumens per Lamp: N/A
Luminaire Lumens: 2920.6 lumens
Efficiency: N/A
Efficacy: 67.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	5979	5979	5979
5°	5923	5979	5942
10°	5869	5929	5900
15°	5788	5882	5840
20°	5697	5832	5762
25°	5586	5748	5682
30°	5473	5658	5607
35°	5349	5562	5510
40°	5211	5450	5382
45°	5065	5320	5220
50°	4912	5150	5015
55°	4734	4955	4803
60°	4533	4720	4575
65°	4271	4436	4275
70°	3931	4088	3887
75°	3460	3618	3408
80°	2811	2935	2780
85°	1958	2087	2038



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.6	3.6
10°-20°	296.5	10.2
20°-30°	442.2	15.1
30°-40°	524.0	17.9
40°-50°	530.2	18.2
50°-60°	463.1	15.9
60°-70°	338.4	11.6
70°-80°	180.0	6.2
80°-90°	41.6	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°	843.3	28.9
0°-40°	1367.3	46.8
0°-60°	2360.5	80.8
0°-90°	2920.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2920.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1111	1111	1111	1111	1111	
5°	1096	1098	1107	1109	1100	104
15°	1039	1046	1056	1062	1048	293
25°	941	952	968	972	957	433
35°	814	827	846	852	839	509
45°	665	677	699	700	686	513
55°	504	515	528	520	512	451
65°	335	342	348	341	336	332
75°	166	170	174	168	164	177
85°	32	32	34	34	33	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1110.9	1110.9	1110.9	1110.9	1110.9
2.5°	1102.2	1105.8	1109.5	1111.1	1102.1
5°	1096.4	1098.5	1106.7	1109.3	1099.9
7.5°	1086.9	1090.1	1098.0	1099.2	1090.2
10°	1074.0	1079.5	1084.9	1090.6	1079.6
12.5°	1057.4	1064.9	1074.0	1075.0	1066.7
15°	1038.8	1045.7	1055.6	1061.9	1048.2
17.5°	1018.0	1024.7	1037.4	1038.6	1030.2
20°	994.7	1003.0	1018.3	1021.0	1006.0
22.5°	968.3	979.5	992.3	994.8	983.8
25°	940.6	952.2	968.0	971.5	956.8
27.5°	911.7	922.8	940.5	943.1	930.7
30°	880.7	891.1	910.5	914.8	902.2
32.5°	849.2	859.6	881.1	884.7	872.5
35°	814.2	827.0	846.5	852.4	838.7
37.5°	778.6	791.0	813.2	818.5	803.7
40°	741.7	753.9	775.8	780.2	766.0
42.5°	703.9	716.2	739.6	740.3	728.5
45°	665.4	677.2	699.0	699.5	685.8
47.5°	626.3	638.2	657.6	655.4	642.5
50°	586.7	598.0	615.1	610.7	599.0
52.5°	545.7	556.7	572.8	565.6	554.6
55°	504.5	514.7	528.1	520.5	511.9
57.5°	463.0	473.3	483.6	475.8	468.4
60°	421.1	430.1	438.5	430.7	425.0
62.5°	378.5	386.2	393.5	386.0	380.7
65°	335.4	342.2	348.3	341.3	335.7
67.5°	292.6	298.4	303.9	296.8	290.9
70°	249.8	254.7	259.8	252.4	247.0
72.5°	207.5	211.9	216.4	209.3	204.5
75°	166.4	170.3	174.0	167.6	163.9
77.5°	127.2	130.4	133.0	128.9	125.3
80°	90.7	93.2	94.7	93.1	89.7
82.5°	58.3	60.1	60.9	60.8	58.6
85°	31.7	32.3	33.8	34.1	33.0
87.5°	12.3	13.1	13.4	14.5	13.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)