

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: P490067

Luminaire Tested: **CLP-12-2-INS-A19156-LD4-2STD-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: P490067
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-LD4-2STD-20-120-EDD
Description: 1X2 CLP LED LUMINAIRE WITH A19156 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

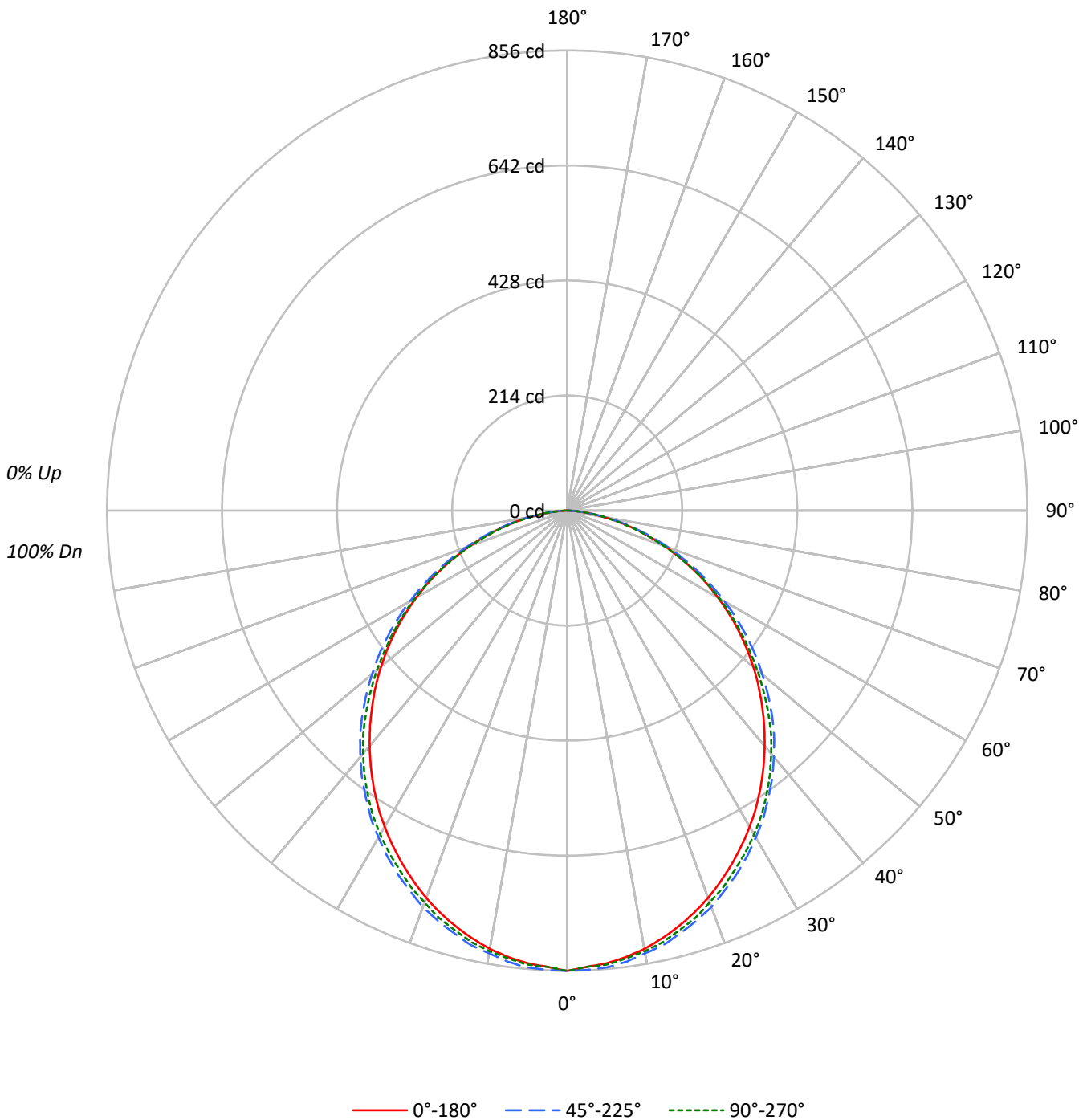
Lumens per Lamp: N/A
Luminaire Lumens: 2251.3 lumens
Efficiency: N/A
Efficacy: 67.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
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°	4609	4609	4609
5°	4566	4609	4580
10°	4524	4570	4548
15°	4461	4534	4502
20°	4391	4495	4442
25°	4306	4431	4380
30°	4219	4362	4322
35°	4123	4287	4248
40°	4017	4201	4148
45°	3904	4101	4023
50°	3786	3970	3866
55°	3649	3820	3703
60°	3494	3638	3526
65°	3293	3419	3294
70°	3029	3152	2996
75°	2668	2789	2626
80°	2166	2263	2142
85°	1507	1612	1568



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.6	3.6
10°-20°	228.5	10.2
20°-30°	340.9	15.1
30°-40°	403.9	17.9
40°-50°	408.7	18.2
50°-60°	356.9	15.9
60°-70°	260.8	11.6
70°-80°	138.8	6.2
80°-90°	32.1	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°	650.0	28.9
0°-40°	1054.0	46.8
0°-60°	1819.6	80.8
0°-90°	2251.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2251.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	856	856	856	856	856	
5°	845	847	853	855	848	80
15°	801	806	814	819	808	226
25°	725	734	746	749	738	334
35°	628	638	652	657	646	393
45°	513	522	539	539	529	396
55°	389	397	407	401	395	348
65°	259	264	268	263	259	256
75°	128	131	134	129	126	136
85°	24	25	26	26	25	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	856.3	856.3	856.3	856.3	856.3
2.5°	849.6	852.4	855.2	856.5	849.5
5°	845.2	846.8	853.1	855.1	847.8
7.5°	837.8	840.3	846.4	847.3	840.3
10°	827.9	832.1	836.2	840.7	832.2
12.5°	815.1	820.9	827.9	828.7	822.2
15°	800.7	806.1	813.7	818.6	808.0
17.5°	784.7	789.8	799.7	800.6	794.1
20°	766.7	773.2	784.9	787.0	775.5
22.5°	746.4	755.1	764.9	766.8	758.4
25°	725.1	734.0	746.1	748.9	737.6
27.5°	702.8	711.3	725.0	726.9	717.4
30°	678.9	686.9	701.9	705.2	695.5
32.5°	654.6	662.6	679.2	682.0	672.5
35°	627.6	637.5	652.5	657.1	646.5
37.5°	600.2	609.7	626.8	630.9	619.5
40°	571.7	581.2	598.0	601.4	590.4
42.5°	542.6	552.1	570.1	570.6	561.5
45°	512.9	522.0	538.8	539.2	528.6
47.5°	482.8	491.9	506.9	505.2	495.2
50°	452.2	461.0	474.1	470.7	461.7
52.5°	420.7	429.1	441.5	436.0	427.5
55°	388.9	396.8	407.1	401.2	394.6
57.5°	356.9	364.8	372.8	366.8	361.1
60°	324.6	331.5	338.0	332.0	327.6
62.5°	291.7	297.7	303.3	297.5	293.4
65°	258.6	263.8	268.5	263.1	258.7
67.5°	225.5	230.0	234.3	228.8	224.2
70°	192.5	196.4	200.3	194.6	190.4
72.5°	160.0	163.4	166.8	161.3	157.6
75°	128.3	131.2	134.1	129.2	126.3
77.5°	98.1	100.5	102.5	99.4	96.6
80°	69.9	71.8	73.0	71.7	69.1
82.5°	45.0	46.3	46.9	46.8	45.1
85°	24.4	24.9	26.1	26.3	25.4
87.5°	9.5	10.1	10.3	11.2	10.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)