

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: P490011

Luminaire Tested: **CLP-12-2-INS-A19156-LD4-1HI-30-120-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: P490011
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-LD4-1HI-30-120-EDD
Description: 1X2 CLP LED LUMINAIRE WITH A19156 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

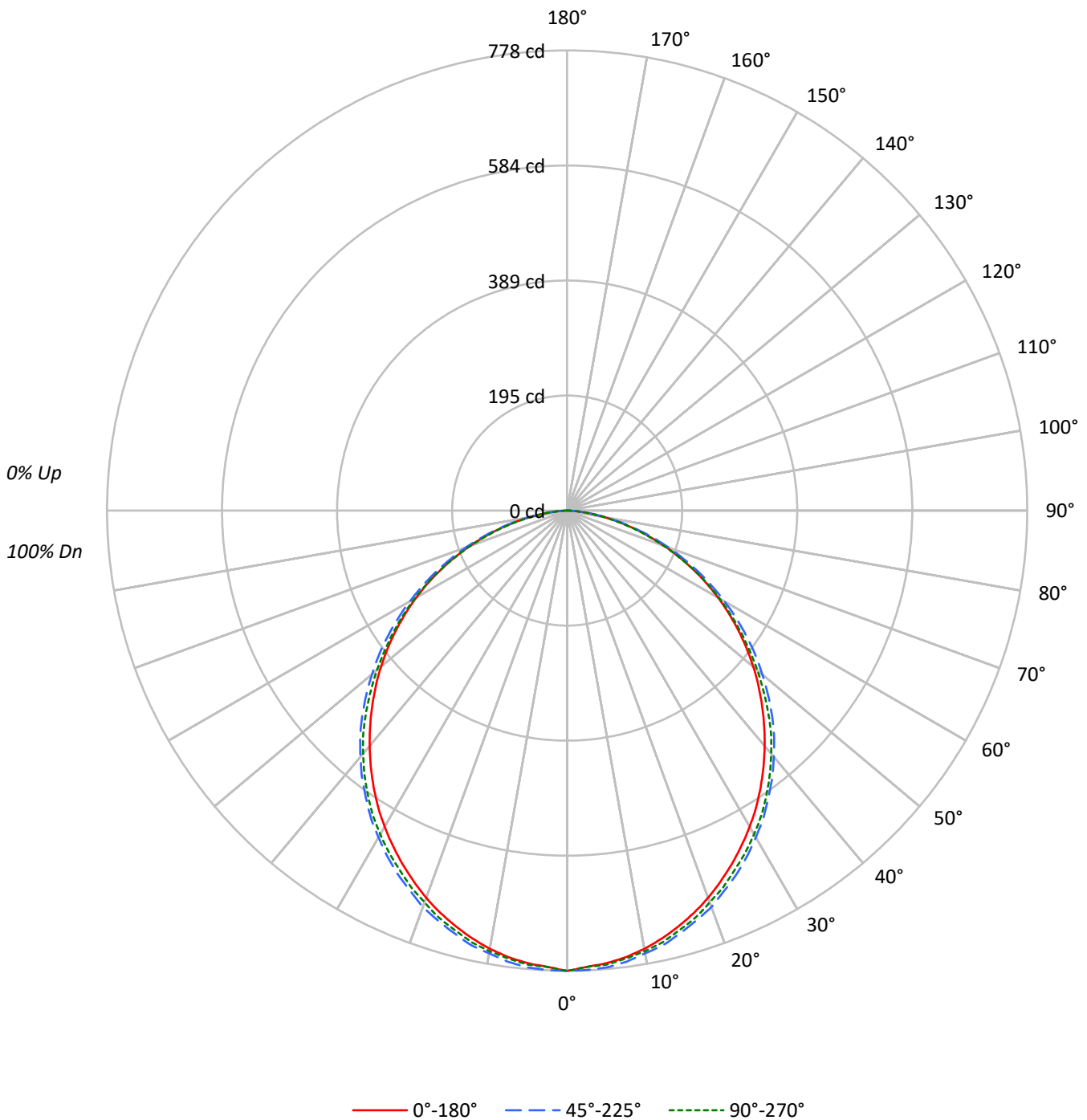
Lumens per Lamp: N/A
Luminaire Lumens: 2046.0 lumens
Efficiency: N/A
Efficacy: 94.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 21.6
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°	4188	4188	4188
5°	4150	4189	4163
10°	4112	4153	4133
15°	4055	4120	4091
20°	3991	4086	4037
25°	3913	4027	3980
30°	3834	3964	3928
35°	3748	3896	3860
40°	3651	3818	3770
45°	3548	3727	3656
50°	3441	3608	3513
55°	3316	3472	3365
60°	3175	3307	3204
65°	2993	3107	2994
70°	2754	2864	2722
75°	2425	2535	2387
80°	1971	2055	1946
85°	1371	1463	1426



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.3	3.6
10°-20°	207.7	10.2
20°-30°	309.8	15.1
30°-40°	367.1	17.9
40°-50°	371.4	18.2
50°-60°	324.4	15.9
60°-70°	237.1	11.6
70°-80°	126.1	6.2
80°-90°	29.1	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°	590.8	28.9
0°-40°	957.9	46.8
0°-60°	1653.7	80.8
0°-90°	2046.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2046.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	778	778	778	778	778	
5°	768	770	775	777	770	73
15°	728	733	740	744	734	205
25°	659	667	678	681	670	304
35°	570	579	593	597	588	357
45°	466	474	490	490	480	360
55°	353	361	370	365	359	316
65°	235	240	244	239	235	233
75°	117	119	122	117	115	124
85°	22	23	24	24	23	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	778.2	778.2	778.2	778.2	778.2
2.5°	772.1	774.7	777.3	778.4	772.1
5°	768.1	769.5	775.3	777.1	770.5
7.5°	761.4	763.6	769.2	770.0	763.7
10°	752.4	756.3	760.0	764.0	756.3
12.5°	740.8	746.0	752.4	753.1	747.3
15°	727.7	732.6	739.5	743.9	734.3
17.5°	713.1	717.8	726.7	727.5	721.7
20°	696.8	702.7	713.4	715.2	704.8
22.5°	678.3	686.2	695.1	696.9	689.2
25°	659.0	667.1	678.1	680.6	670.3
27.5°	638.7	646.5	658.9	660.7	652.0
30°	617.0	624.3	637.9	640.9	632.0
32.5°	594.9	602.2	617.3	619.8	611.2
35°	570.4	579.3	593.0	597.2	587.5
37.5°	545.4	554.1	569.7	573.4	563.0
40°	519.6	528.2	543.5	546.6	536.6
42.5°	493.1	501.7	518.1	518.6	510.3
45°	466.1	474.4	489.7	490.1	480.4
47.5°	438.7	447.1	460.7	459.2	450.1
50°	411.0	419.0	430.9	427.8	419.6
52.5°	382.3	390.0	401.3	396.2	388.5
55°	353.4	360.6	370.0	364.6	358.6
57.5°	324.3	331.5	338.8	333.3	328.1
60°	295.0	301.3	307.2	301.7	297.7
62.5°	265.1	270.6	275.7	270.4	266.7
65°	235.0	239.8	244.0	239.1	235.1
67.5°	205.0	209.0	212.9	207.9	203.8
70°	175.0	178.5	182.0	176.8	173.0
72.5°	145.4	148.5	151.6	146.6	143.3
75°	116.6	119.3	121.9	117.4	114.8
77.5°	89.1	91.4	93.2	90.3	87.8
80°	63.6	65.3	66.3	65.2	62.8
82.5°	40.9	42.1	42.6	42.6	41.0
85°	22.2	22.6	23.7	23.9	23.1
87.5°	8.6	9.2	9.4	10.1	9.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)