

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: P490042

Luminaire Tested: **CLP-12-2-INS-A19156-LD4-2HI-20-120-EDD-90**

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: P490042
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-90
Description: 1X2 CLP LED LUMINAIRE WITH A19156 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

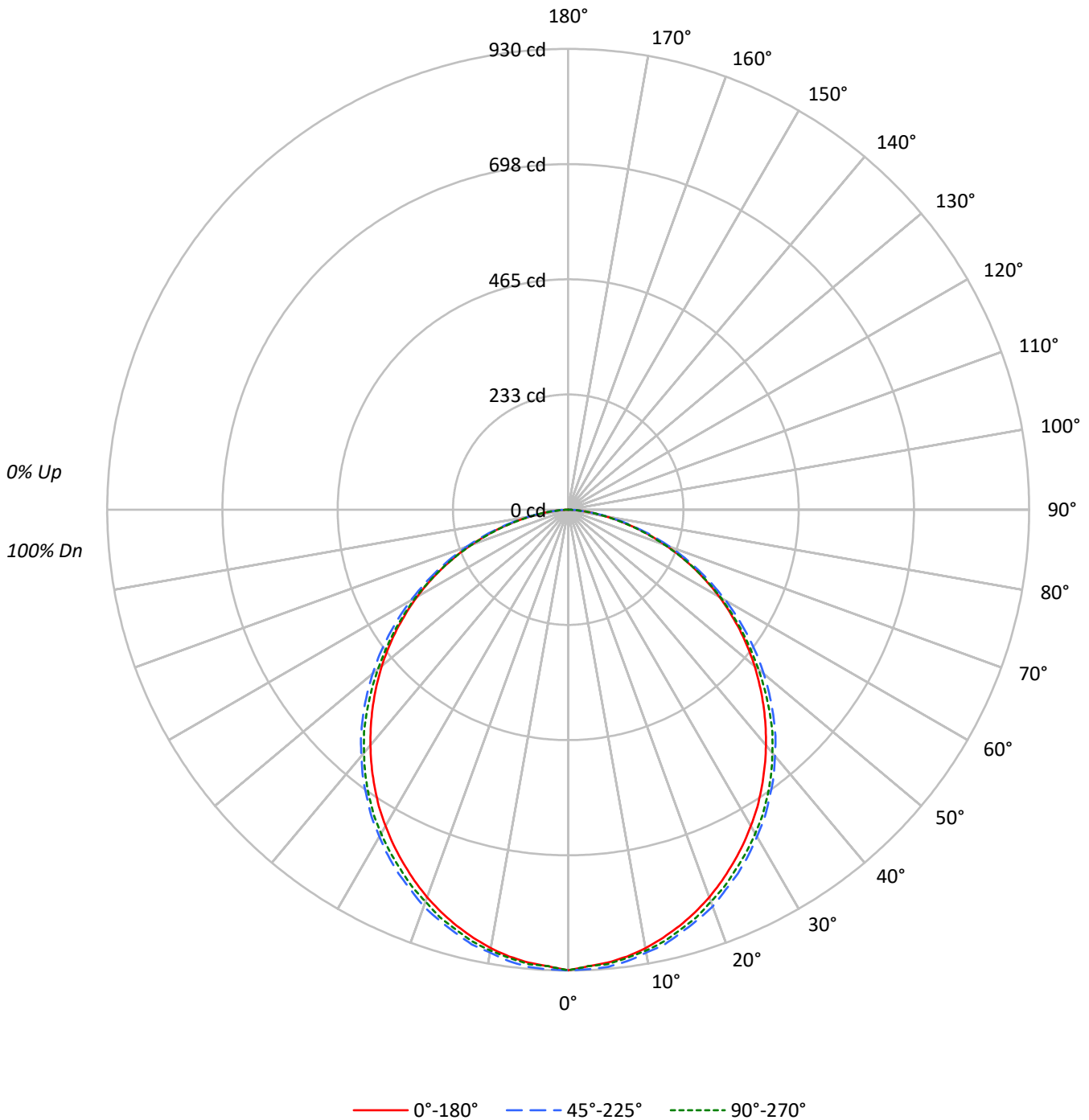
Lumens per Lamp: N/A
Luminaire Lumens: 2443.8 lumens
Efficiency: N/A
Efficacy: 56.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	5003	5003	5003
5°	4956	5003	4972
10°	4911	4961	4937
15°	4843	4921	4886
20°	4767	4880	4821
25°	4674	4809	4754
30°	4580	4735	4691
35°	4476	4654	4611
40°	4360	4561	4503
45°	4238	4452	4367
50°	4110	4309	4196
55°	3962	4146	4020
60°	3792	3950	3828
65°	3575	3711	3577
70°	3289	3421	3253
75°	2897	3028	2851
80°	2352	2455	2328
85°	1636	1748	1704



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.5	3.6
10°-20°	248.1	10.2
20°-30°	370.0	15.1
30°-40°	438.5	17.9
40°-50°	443.6	18.2
50°-60°	387.5	15.9
60°-70°	283.1	11.6
70°-80°	150.7	6.2
80°-90°	34.8	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°	705.6	28.9
0°-40°	1144.1	46.8
0°-60°	1975.2	80.8
0°-90°	2443.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2443.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	930	930	930	930	930	
5°	917	919	926	928	920	87
15°	869	875	883	889	877	245
25°	787	797	810	813	801	363
35°	681	692	708	713	702	426
45°	557	567	585	585	574	430
55°	422	431	442	436	428	377
65°	281	286	291	286	281	278
75°	139	142	146	140	137	148
85°	26	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°	929.5	929.5	929.5	929.5	929.5
2.5°	922.3	925.3	928.4	929.7	922.2
5°	917.4	919.2	926.0	928.2	920.3
7.5°	909.5	912.1	918.8	919.8	912.2
10°	898.6	903.3	907.7	912.6	903.4
12.5°	884.8	891.1	898.6	899.5	892.5
15°	869.2	875.0	883.2	888.6	877.0
17.5°	851.8	857.4	868.0	869.0	862.0
20°	832.3	839.3	852.1	854.3	841.8
22.5°	810.2	819.6	830.3	832.4	823.2
25°	787.1	796.8	809.9	812.9	800.6
27.5°	762.9	772.2	787.0	789.1	778.7
30°	736.9	745.6	761.9	765.5	754.9
32.5°	710.6	719.3	737.3	740.3	730.0
35°	681.3	692.0	708.3	713.3	701.8
37.5°	651.5	661.9	680.4	684.9	672.5
40°	620.6	630.9	649.2	652.8	640.9
42.5°	589.0	599.3	618.9	619.4	609.6
45°	556.8	566.6	584.9	585.3	573.8
47.5°	524.0	534.0	550.3	548.4	537.6
50°	490.9	500.4	514.6	511.0	501.2
52.5°	456.6	465.8	479.3	473.3	464.1
55°	422.2	430.7	441.9	435.5	428.4
57.5°	387.4	396.0	404.6	398.1	391.9
60°	352.3	359.9	367.0	360.4	355.6
62.5°	316.7	323.2	329.3	323.0	318.5
65°	280.7	286.4	291.4	285.6	280.9
67.5°	244.8	249.7	254.3	248.3	243.4
70°	209.0	213.2	217.4	211.2	206.7
72.5°	173.6	177.3	181.1	175.1	171.1
75°	139.3	142.5	145.6	140.2	137.1
77.5°	106.4	109.1	111.3	107.9	104.9
80°	75.9	78.0	79.2	77.9	75.1
82.5°	48.8	50.3	50.9	50.8	49.0
85°	26.5	27.0	28.3	28.6	27.6
87.5°	10.3	10.9	11.2	12.1	11.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)