

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: P490006

Luminaire Tested: **CLP-12-2-INS-A19156-LD4-1HI-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: P490006  
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-20-120-EDD-90  
Description: 1X2 CLP LED LUMINAIRE WITH A19156 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

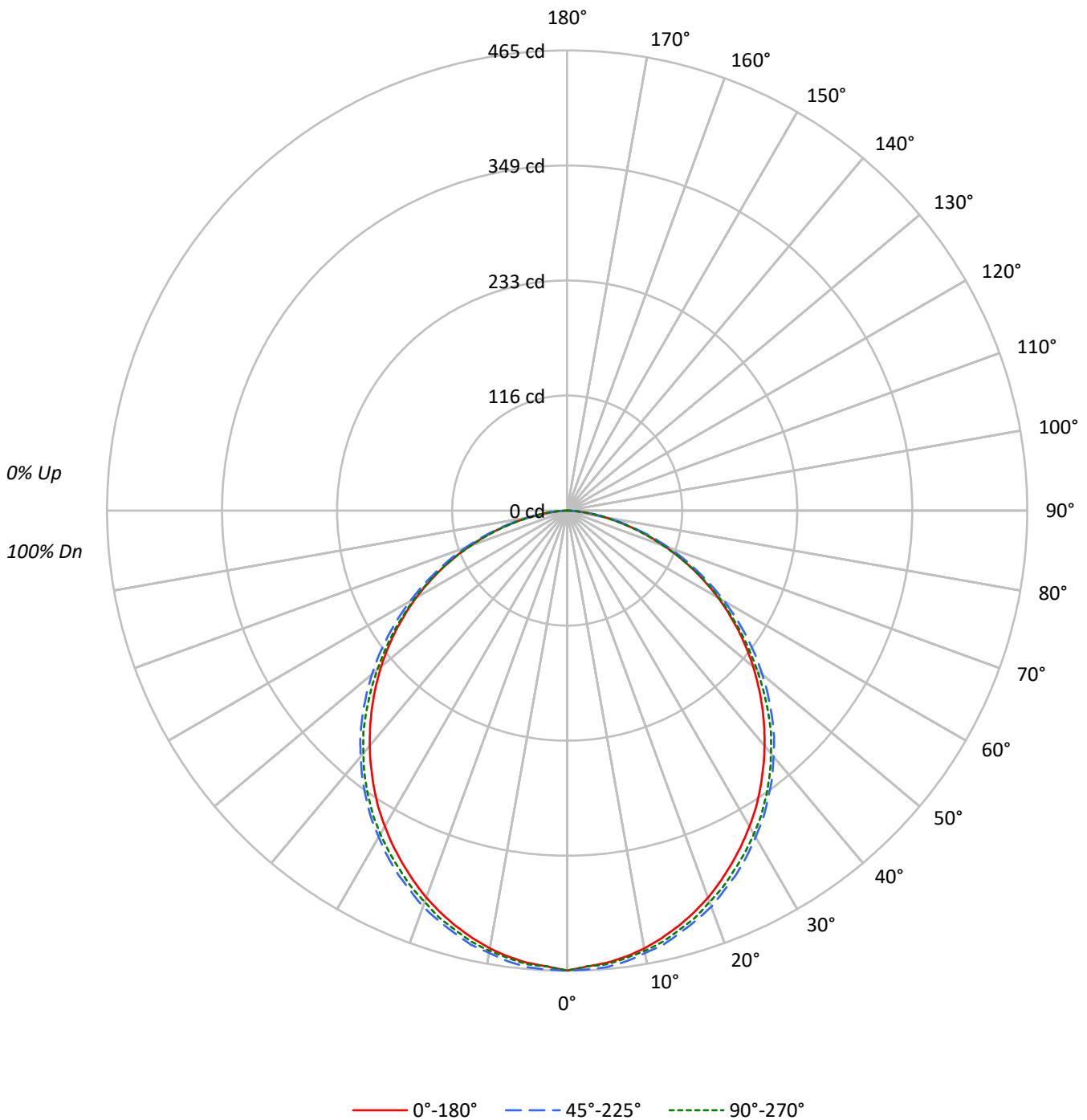
Lumens per Lamp: N/A  
Luminaire Lumens: 1221.9 lumens  
Efficiency: N/A  
Efficacy: 56.6 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 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	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°	2502	2502	2502
5°	2478	2501	2486
10°	2455	2481	2469
15°	2422	2461	2443
20°	2384	2440	2411
25°	2337	2405	2377
30°	2290	2367	2346
35°	2238	2327	2305
40°	2180	2281	2252
45°	2119	2226	2184
50°	2056	2154	2098
55°	1981	2074	2010
60°	1897	1975	1914
65°	1787	1855	1788
70°	1644	1710	1626
75°	1447	1514	1426
80°	1178	1227	1162
85°	821	871	852



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	43.8	3.6
10°-20°	124.0	10.2
20°-30°	185.0	15.1
30°-40°	219.2	17.9
40°-50°	221.8	18.2
50°-60°	193.7	15.9
60°-70°	141.6	11.6
70°-80°	75.3	6.2
80°-90°	17.4	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°	352.8	28.9
0°-40°	572.0	46.8
0°-60°	987.6	80.8
0°-90°	1221.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1221.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	465	465	465	465	465	
5°	459	460	463	464	460	43
15°	435	438	442	444	438	123
25°	394	398	405	406	400	181
35°	341	346	354	357	351	213
45°	278	283	292	293	287	215
55°	211	215	221	218	214	189
65°	140	143	146	143	140	139
75°	70	71	73	70	69	74
85°	13	14	14	14	14	17
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	464.8	464.8	464.8	464.8	464.8
2.5°	461.1	462.6	464.2	464.9	461.1
5°	458.7	459.6	463.0	464.1	460.2
7.5°	454.7	456.1	459.4	459.9	456.1
10°	449.3	451.6	453.9	456.3	451.7
12.5°	442.4	445.5	449.3	449.8	446.3
15°	434.6	437.5	441.6	444.3	438.5
17.5°	425.9	428.7	434.0	434.5	431.0
20°	416.2	419.6	426.0	427.1	420.9
22.5°	405.1	409.8	415.1	416.2	411.6
25°	393.5	398.4	405.0	406.5	400.3
27.5°	381.4	386.1	393.5	394.6	389.4
30°	368.5	372.8	380.9	382.7	377.5
32.5°	355.3	359.6	368.6	370.1	365.0
35°	340.7	346.0	354.2	356.6	350.9
37.5°	325.7	330.9	340.2	342.4	336.3
40°	310.3	315.4	324.6	326.4	320.5
42.5°	294.5	299.6	309.4	309.7	304.8
45°	278.4	283.3	292.4	292.7	286.9
47.5°	262.0	267.0	275.1	274.2	268.8
50°	245.5	250.2	257.3	255.5	250.6
52.5°	228.3	232.9	239.6	236.6	232.0
55°	211.1	215.3	221.0	217.8	214.2
57.5°	193.7	198.0	202.3	199.1	196.0
60°	176.2	179.9	183.5	180.2	177.8
62.5°	158.3	161.6	164.6	161.5	159.3
65°	140.3	143.2	145.7	142.8	140.4
67.5°	122.4	124.8	127.2	124.2	121.7
70°	104.5	106.6	108.7	105.6	103.3
72.5°	86.8	88.7	90.6	87.5	85.6
75°	69.6	71.2	72.8	70.1	68.6
77.5°	53.2	54.6	55.6	53.9	52.4
80°	38.0	39.0	39.6	38.9	37.5
82.5°	24.4	25.1	25.5	25.4	24.5
85°	13.3	13.5	14.1	14.3	13.8
87.5°	5.1	5.5	5.6	6.1	5.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)