

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: P490074

Luminaire Tested: **CLP-12-2-INS-A19156-LD4-2STD-40-120-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: P490074
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-40-120-EDD-90
Description: 1X2 CLP LED LUMINAIRE WITH A19156 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

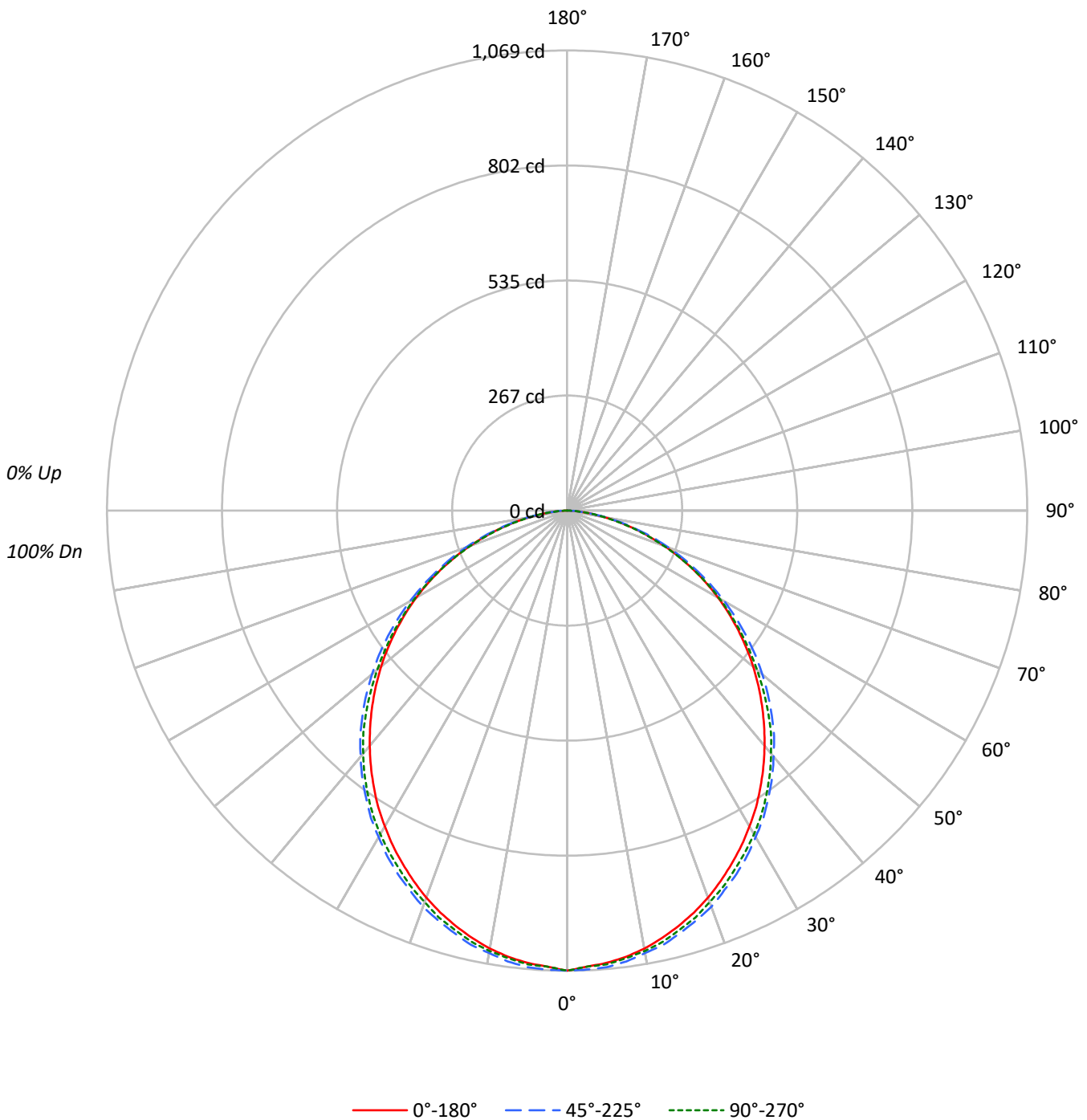
Lumens per Lamp: N/A
Luminaire Lumens: 2809.6 lumens
Efficiency: N/A
Efficacy: 84.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	5752	5752	5752
5°	5699	5752	5716
10°	5646	5703	5676
15°	5568	5658	5618
20°	5481	5611	5543
25°	5374	5530	5466
30°	5265	5443	5394
35°	5146	5351	5301
40°	5013	5243	5177
45°	4872	5118	5021
50°	4726	4954	4824
55°	4554	4768	4621
60°	4360	4541	4401
65°	4110	4266	4112
70°	3781	3934	3739
75°	3329	3479	3279
80°	2706	2824	2675
85°	1883	2007	1958



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.6	3.6
10°-20°	285.2	10.2
20°-30°	425.4	15.1
30°-40°	504.1	17.9
40°-50°	510.1	18.2
50°-60°	445.5	15.9
60°-70°	325.5	11.6
70°-80°	173.2	6.2
80°-90°	40.0	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°	811.2	28.9
0°-40°	1315.3	46.8
0°-60°	2270.8	80.8
0°-90°	2809.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2809.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1069	1069	1069	1069	1069	
5°	1055	1057	1065	1067	1058	100
15°	999	1006	1015	1022	1008	282
25°	905	916	931	935	920	417
35°	783	796	814	820	807	490
45°	640	652	672	673	660	494
55°	485	495	508	501	492	434
65°	323	329	335	328	323	319
75°	160	164	167	161	158	170
85°	30	31	32	33	32	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1068.7	1068.7	1068.7	1068.7	1068.7
2.5°	1060.3	1063.8	1067.3	1068.9	1060.2
5°	1054.8	1056.8	1064.7	1067.1	1058.1
7.5°	1045.6	1048.6	1056.3	1057.4	1048.7
10°	1033.2	1038.5	1043.6	1049.2	1038.6
12.5°	1017.2	1024.5	1033.2	1034.2	1026.1
15°	999.3	1006.0	1015.4	1021.6	1008.3
17.5°	979.3	985.7	998.0	999.1	991.1
20°	956.9	964.9	979.6	982.2	967.8
22.5°	931.5	942.3	954.5	957.0	946.4
25°	904.9	916.0	931.2	934.6	920.5
27.5°	877.1	887.7	904.8	907.2	895.3
30°	847.2	857.2	875.9	880.1	867.9
32.5°	816.9	826.9	847.7	851.1	839.3
35°	783.3	795.5	814.4	820.0	806.8
37.5°	749.0	760.9	782.3	787.4	773.2
40°	713.5	725.3	746.3	750.6	736.9
42.5°	677.2	689.0	711.5	712.2	700.8
45°	640.1	651.5	672.4	673.0	659.7
47.5°	602.5	613.9	632.7	630.5	618.1
50°	564.4	575.3	591.7	587.4	576.2
52.5°	525.0	535.6	551.0	544.1	533.6
55°	485.3	495.1	508.1	500.7	492.5
57.5°	445.4	455.3	465.2	457.7	450.6
60°	405.1	413.8	421.9	414.3	408.9
62.5°	364.1	371.6	378.6	371.3	366.2
65°	322.7	329.2	335.0	328.4	322.9
67.5°	281.5	287.0	292.4	285.5	279.8
70°	240.3	245.1	250.0	242.8	237.6
72.5°	199.6	203.9	208.2	201.3	196.7
75°	160.1	163.8	167.3	161.2	157.7
77.5°	122.4	125.5	127.9	124.0	120.6
80°	87.3	89.6	91.1	89.5	86.3
82.5°	56.1	57.8	58.6	58.5	56.3
85°	30.5	31.1	32.5	32.8	31.7
87.5°	11.8	12.6	12.9	13.9	12.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)