

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: P490031

Luminaire Tested: **CLP-12-2-INS-A19156-LD4-1STD-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: P490031
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-LD4-1STD-20-120-EDD
Description: 1X2 CLP LED LUMINAIRE WITH A19156 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

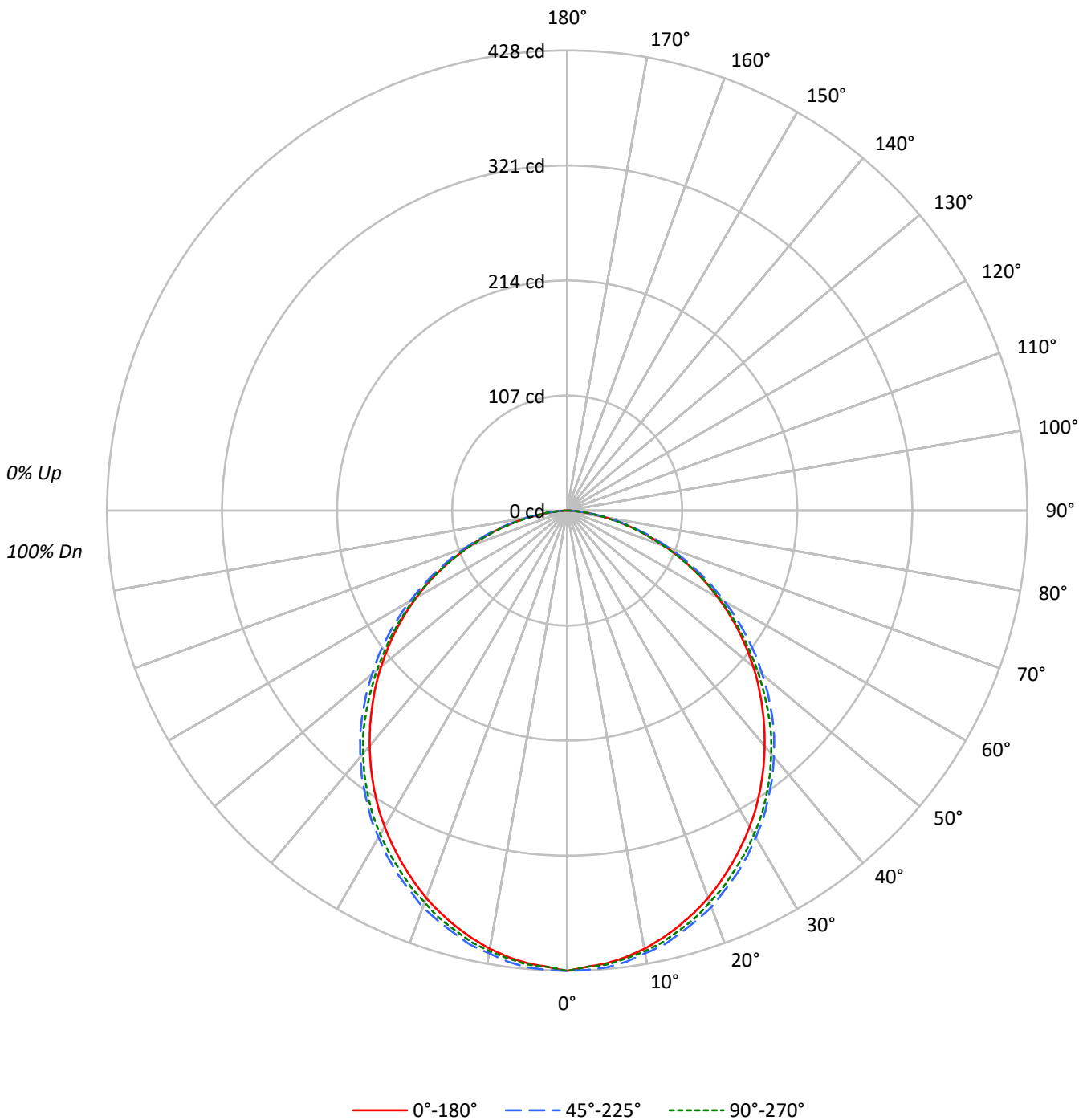
Lumens per Lamp: N/A
Luminaire Lumens: 1125.6 lumens
Efficiency: N/A
Efficacy: 67.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 16.6
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°	2304	2304	2304
5°	2283	2304	2290
10°	2262	2285	2274
15°	2230	2267	2251
20°	2196	2248	2220
25°	2153	2215	2190
30°	2109	2181	2161
35°	2062	2144	2123
40°	2008	2101	2074
45°	1952	2050	2012
50°	1893	1984	1932
55°	1824	1909	1851
60°	1747	1819	1763
65°	1647	1709	1648
70°	1515	1575	1498
75°	1333	1393	1314
80°	1085	1131	1072
85°	753	803	784



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.3	3.6
10°-20°	114.3	10.2
20°-30°	170.4	15.1
30°-40°	201.9	17.9
40°-50°	204.3	18.2
50°-60°	178.5	15.9
60°-70°	130.4	11.6
70°-80°	69.4	6.2
80°-90°	16.0	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°	325.0	28.9
0°-40°	527.0	46.8
0°-60°	909.8	80.8
0°-90°	1125.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1125.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	428	428	428	428	428	
5°	423	423	426	428	424	40
15°	400	403	407	409	404	113
25°	362	367	373	374	369	167
35°	314	319	326	328	323	196
45°	256	261	269	270	264	198
55°	194	198	204	201	197	174
65°	129	132	134	132	129	128
75°	64	66	67	65	63	68
85°	12	12	13	13	13	15
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	428.1	428.1	428.1	428.1	428.1
2.5°	424.8	426.2	427.6	428.2	424.7
5°	422.6	423.4	426.5	427.5	423.9
7.5°	418.9	420.1	423.2	423.6	420.2
10°	413.9	416.0	418.1	420.3	416.1
12.5°	407.5	410.4	413.9	414.3	411.1
15°	400.3	403.0	406.8	409.3	404.0
17.5°	392.3	394.9	399.8	400.3	397.0
20°	383.4	386.6	392.5	393.5	387.7
22.5°	373.2	377.5	382.4	383.4	379.2
25°	362.5	367.0	373.0	374.4	368.8
27.5°	351.4	355.7	362.5	363.5	358.7
30°	339.4	343.4	350.9	352.6	347.7
32.5°	327.3	331.3	339.6	341.0	336.2
35°	313.8	318.7	326.3	328.5	323.2
37.5°	300.1	304.8	313.4	315.5	309.8
40°	285.8	290.6	299.0	300.7	295.2
42.5°	271.3	276.0	285.0	285.3	280.8
45°	256.4	261.0	269.4	269.6	264.3
47.5°	241.4	246.0	253.5	252.6	247.6
50°	226.1	230.5	237.0	235.3	230.8
52.5°	210.3	214.6	220.8	218.0	213.8
55°	194.4	198.4	203.5	200.6	197.3
57.5°	178.4	182.4	186.4	183.4	180.5
60°	162.3	165.8	169.0	166.0	163.8
62.5°	145.9	148.9	151.7	148.8	146.7
65°	129.3	131.9	134.2	131.5	129.4
67.5°	112.8	115.0	117.1	114.4	112.1
70°	96.3	98.2	100.1	97.3	95.2
72.5°	80.0	81.7	83.4	80.6	78.8
75°	64.1	65.6	67.0	64.6	63.2
77.5°	49.0	50.3	51.3	49.7	48.3
80°	35.0	35.9	36.5	35.9	34.6
82.5°	22.5	23.2	23.5	23.4	22.6
85°	12.2	12.4	13.0	13.2	12.7
87.5°	4.7	5.0	5.2	5.6	5.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)