

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: P490025

Luminaire Tested: **CLP-12-2-INS-A19156-LD4-1LO-35-120-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: P490025
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-LD4-1LO-35-120-EDD
Description: 1X2 CLP LED LUMINAIRE WITH A19156 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

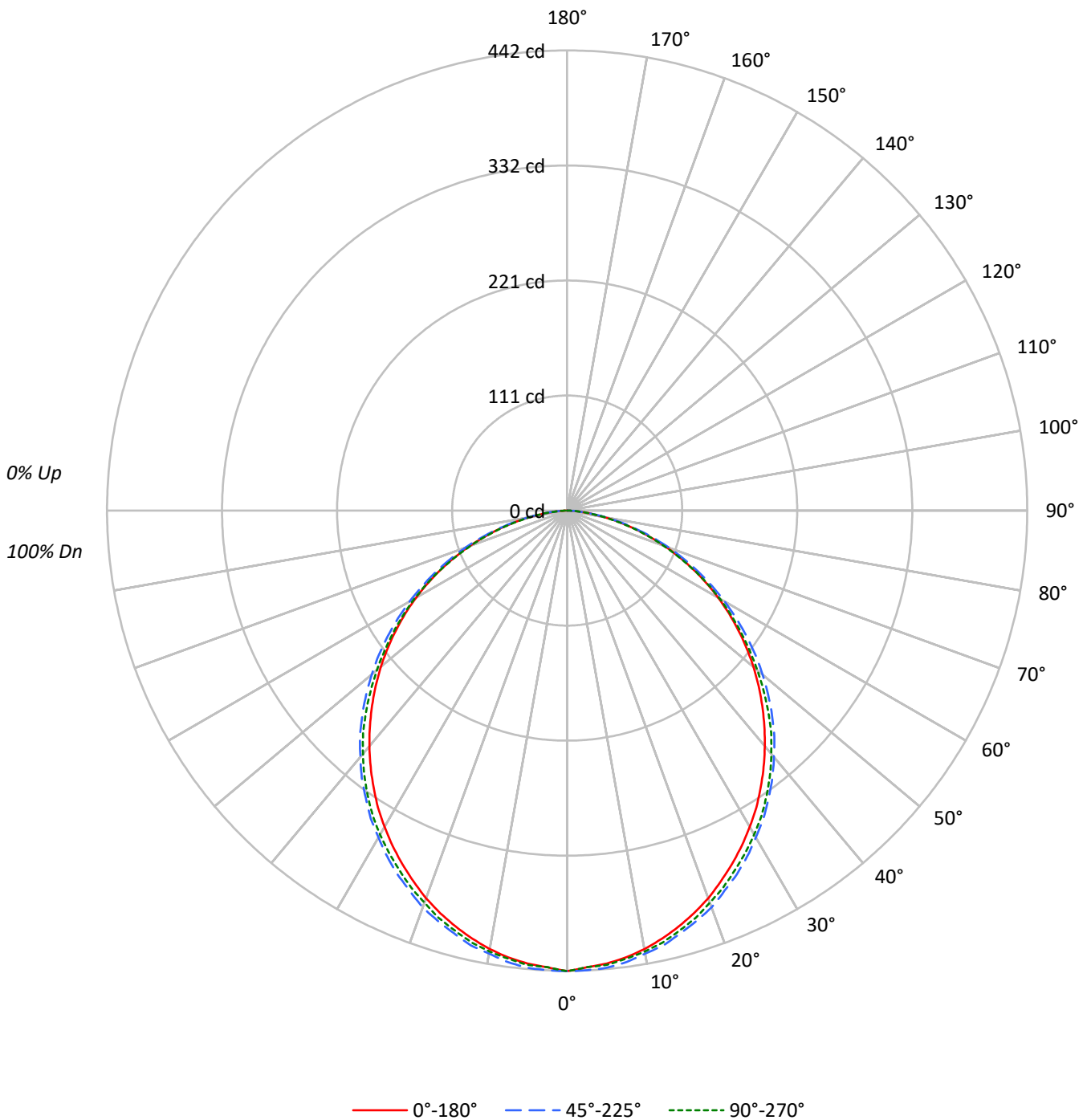
Lumens per Lamp: N/A
Luminaire Lumens: 1163.2 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
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°	2381	2381	2381
5°	2359	2381	2367
10°	2337	2361	2350
15°	2305	2342	2326
20°	2269	2323	2295
25°	2224	2289	2263
30°	2180	2253	2233
35°	2131	2215	2194
40°	2075	2171	2144
45°	2017	2119	2079
50°	1957	2051	1998
55°	1885	1973	1913
60°	1805	1880	1822
65°	1701	1766	1703
70°	1566	1629	1548
75°	1379	1441	1358
80°	1119	1168	1106
85°	778	834	809



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.7	3.6
10°-20°	118.1	10.2
20°-30°	176.1	15.1
30°-40°	208.7	17.9
40°-50°	211.2	18.2
50°-60°	184.4	15.9
60°-70°	134.8	11.6
70°-80°	71.7	6.2
80°-90°	16.6	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°	335.9	28.9
0°-40°	544.6	46.8
0°-60°	940.1	80.8
0°-90°	1163.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1163.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	442	442	442	442	442	
5°	437	438	441	442	438	41
15°	414	416	420	423	418	117
25°	375	379	386	387	381	173
35°	324	329	337	340	334	203
45°	265	270	278	279	273	204
55°	201	205	210	207	204	180
65°	134	136	139	136	134	132
75°	66	68	69	67	65	71
85°	13	13	14	14	13	16
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	442.4	442.4	442.4	442.4	442.4
2.5°	439.0	440.4	441.9	442.5	438.9
5°	436.7	437.5	440.8	441.8	438.1
7.5°	432.9	434.1	437.3	437.8	434.2
10°	427.7	429.9	432.1	434.4	430.0
12.5°	421.1	424.1	427.7	428.1	424.8
15°	413.7	416.5	420.4	422.9	417.5
17.5°	405.4	408.1	413.2	413.6	410.3
20°	396.2	399.5	405.6	406.6	400.7
22.5°	385.6	390.1	395.2	396.2	391.8
25°	374.6	379.2	385.5	386.9	381.1
27.5°	363.1	367.5	374.6	375.6	370.7
30°	350.8	354.9	362.6	364.4	359.3
32.5°	338.2	342.4	350.9	352.4	347.5
35°	324.3	329.4	337.2	339.5	334.0
37.5°	310.1	315.0	323.9	326.0	320.1
40°	295.4	300.3	309.0	310.7	305.1
42.5°	280.4	285.2	294.6	294.8	290.1
45°	265.0	269.7	278.4	278.6	273.1
47.5°	249.4	254.2	261.9	261.0	255.9
50°	233.7	238.2	245.0	243.2	238.6
52.5°	217.3	221.7	228.1	225.3	220.9
55°	200.9	205.0	210.3	207.3	203.9
57.5°	184.4	188.5	192.6	189.5	186.6
60°	167.7	171.3	174.7	171.5	169.3
62.5°	150.7	153.8	156.7	153.7	151.6
65°	133.6	136.3	138.7	135.9	133.7
67.5°	116.5	118.8	121.1	118.2	115.8
70°	99.5	101.5	103.5	100.5	98.4
72.5°	82.7	84.4	86.2	83.3	81.5
75°	66.3	67.8	69.3	66.7	65.3
77.5°	50.7	52.0	53.0	51.4	49.9
80°	36.1	37.1	37.7	37.1	35.7
82.5°	23.2	23.9	24.2	24.2	23.3
85°	12.6	12.9	13.5	13.6	13.1
87.5°	4.9	5.2	5.3	5.8	5.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)