

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: P490027

Luminaire Tested: **CLP-12-2-INS-A19156-LD4-1LO-40-120-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: P490027
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-40-120-EDD
Description: 1X2 CLP LED LUMINAIRE WITH A19156 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

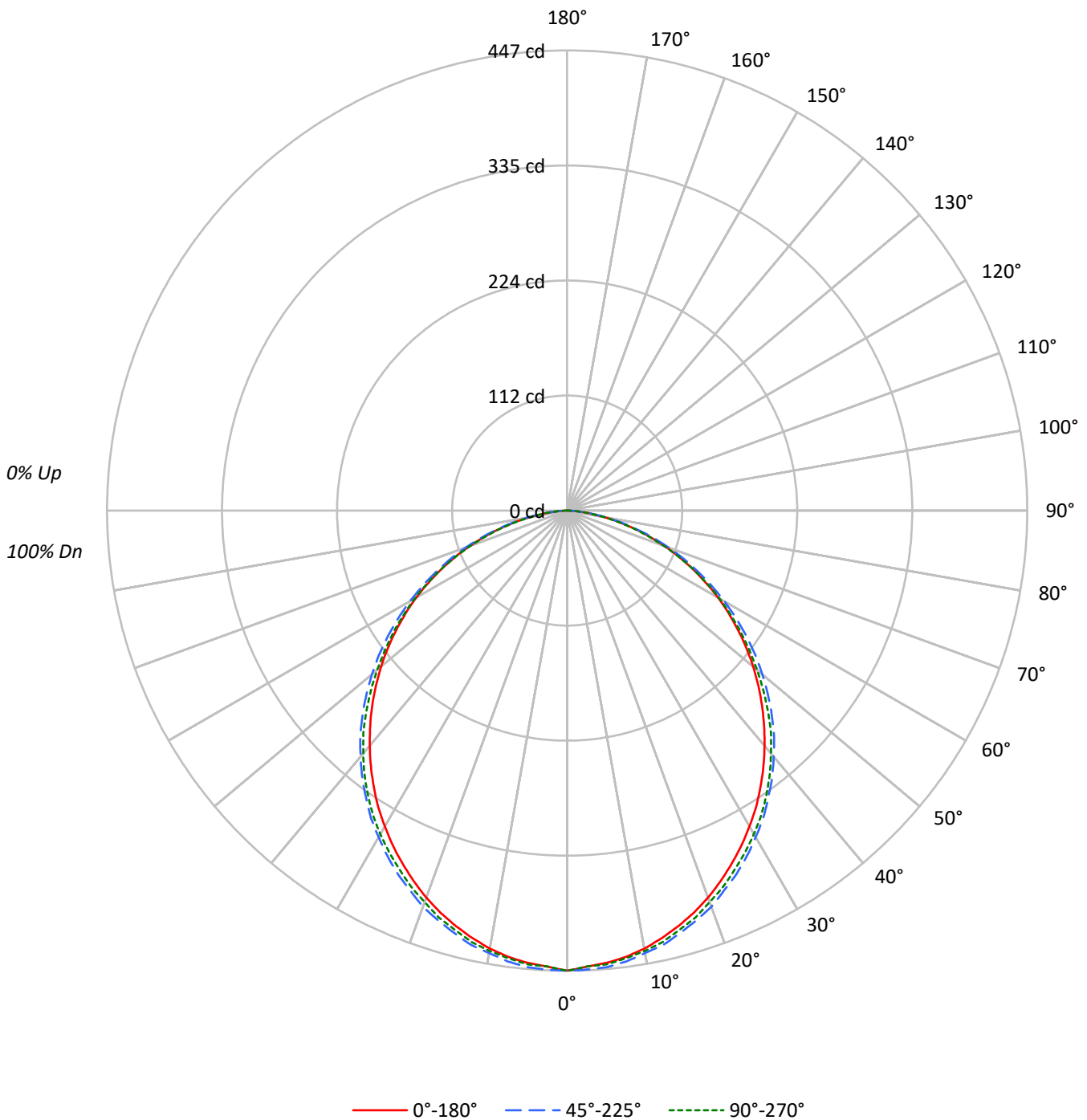
Lumens per Lamp: N/A
Luminaire Lumens: 1174.8 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
Input Voltage (V): NR
Input Current (A_{in}): 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°	2405	2405	2405
5°	2383	2405	2390
10°	2361	2385	2373
15°	2328	2366	2349
20°	2292	2346	2318
25°	2247	2312	2286
30°	2202	2276	2255
35°	2152	2237	2217
40°	2096	2193	2165
45°	2038	2140	2099
50°	1976	2071	2017
55°	1904	1993	1932
60°	1823	1899	1841
65°	1718	1784	1719
70°	1581	1644	1564
75°	1391	1456	1370
80°	1131	1181	1119
85°	790	840	821



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.1	3.6
10°-20°	119.3	10.2
20°-30°	177.9	15.1
30°-40°	210.8	17.9
40°-50°	213.3	18.2
50°-60°	186.3	15.9
60°-70°	136.1	11.6
70°-80°	72.4	6.2
80°-90°	16.7	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°	339.2	28.9
0°-40°	550.0	46.8
0°-60°	949.5	80.8
0°-90°	1174.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1174.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	447	447	447	447	447	
5°	441	442	445	446	442	42
15°	418	421	425	427	422	118
25°	378	383	389	391	385	174
35°	328	333	340	343	337	205
45°	268	272	281	281	276	206
55°	203	207	212	209	206	181
65°	135	138	140	137	135	134
75°	67	68	70	67	66	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°	446.9	446.9	446.9	446.9	446.9
2.5°	443.4	444.8	446.3	446.9	443.3
5°	441.0	441.9	445.2	446.2	442.4
7.5°	437.2	438.5	441.7	442.1	438.5
10°	432.0	434.2	436.4	438.7	434.3
12.5°	425.3	428.4	432.0	432.4	429.1
15°	417.8	420.6	424.6	427.2	421.6
17.5°	409.5	412.2	417.3	417.8	414.4
20°	400.1	403.5	409.6	410.7	404.7
22.5°	389.5	394.0	399.1	400.2	395.7
25°	378.4	383.0	389.4	390.8	384.9
27.5°	366.7	371.2	378.3	379.3	374.4
30°	354.3	358.4	366.3	368.0	362.9
32.5°	341.6	345.8	354.4	355.9	350.9
35°	327.5	332.6	340.5	342.9	337.4
37.5°	313.2	318.2	327.1	329.2	323.3
40°	298.3	303.3	312.1	313.8	308.1
42.5°	283.2	288.1	297.5	297.8	293.0
45°	267.7	272.4	281.2	281.4	275.8
47.5°	251.9	256.7	264.5	263.7	258.4
50°	236.0	240.6	247.4	245.6	240.9
52.5°	219.5	223.9	230.4	227.5	223.1
55°	202.9	207.0	212.4	209.4	205.9
57.5°	186.2	190.4	194.5	191.4	188.4
60°	169.4	173.0	176.4	173.2	171.0
62.5°	152.2	155.4	158.3	155.3	153.1
65°	134.9	137.7	140.1	137.3	135.0
67.5°	117.7	120.0	122.3	119.4	117.0
70°	100.5	102.5	104.5	101.5	99.4
72.5°	83.5	85.2	87.1	84.2	82.3
75°	66.9	68.5	70.0	67.4	65.9
77.5°	51.2	52.5	53.5	51.9	50.4
80°	36.5	37.5	38.1	37.4	36.1
82.5°	23.5	24.2	24.5	24.4	23.6
85°	12.8	13.0	13.6	13.7	13.3
87.5°	4.9	5.3	5.4	5.8	5.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)