

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: P490061

Luminaire Tested: **CLP-12-2-INS-A19156-LD4-2LO-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: P490061
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-LD4-2LO-35-120-EDD
Description: 1X2 CLP LED LUMINAIRE WITH A19156 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

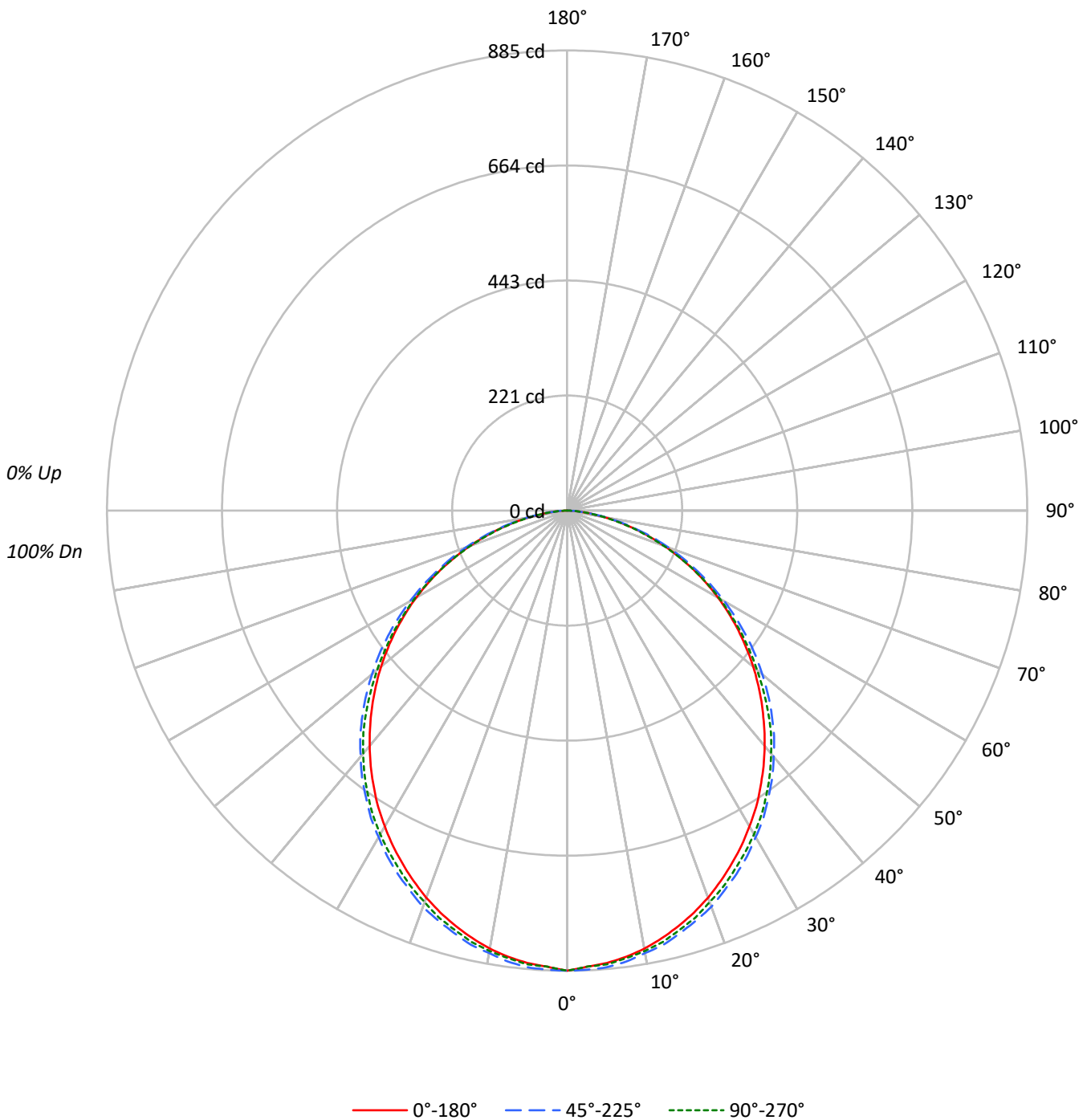
Lumens per Lamp: N/A
Luminaire Lumens: 2326.4 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
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

TEST NUMBER: P490061

CATALOG NUMBER: CLP-12-2-INS-A19156-LD4-2LO-35-120-EDD

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°	4762	4762	4762
5°	4719	4763	4733
10°	4675	4722	4700
15°	4610	4685	4652
20°	4538	4645	4590
25°	4450	4578	4526
30°	4360	4507	4466
35°	4261	4430	4389
40°	4151	4342	4286
45°	4034	4238	4158
50°	3913	4102	3995
55°	3771	3947	3826
60°	3610	3760	3644
65°	3403	3533	3405
70°	3131	3257	3095
75°	2757	2882	2714
80°	2241	2337	2216
85°	1562	1661	1624



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.3	3.6
10°-20°	236.2	10.2
20°-30°	352.2	15.1
30°-40°	417.4	17.9
40°-50°	422.3	18.2
50°-60°	368.9	15.9
60°-70°	269.6	11.6
70°-80°	143.4	6.2
80°-90°	33.1	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°	671.7	28.9
0°-40°	1089.1	46.8
0°-60°	1880.3	80.8
0°-90°	2326.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2326.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	885	885	885	885	885	
5°	873	875	882	884	876	83
15°	827	833	841	846	835	233
25°	749	758	771	774	762	345
35°	649	659	674	679	668	406
45°	530	539	557	557	546	409
55°	402	410	421	415	408	359
65°	267	273	277	272	267	264
75°	133	136	139	134	130	141
85°	25	26	27	27	26	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	884.9	884.9	884.9	884.9	884.9
2.5°	878.0	880.8	883.8	885.1	877.9
5°	873.4	875.0	881.6	883.6	876.1
7.5°	865.8	868.3	874.6	875.6	868.4
10°	855.5	859.9	864.1	868.7	860.0
12.5°	842.3	848.3	855.5	856.3	849.7
15°	827.4	833.0	840.8	845.9	834.9
17.5°	810.8	816.2	826.3	827.3	820.6
20°	792.3	799.0	811.1	813.2	801.4
22.5°	771.3	780.2	790.4	792.4	783.7
25°	749.3	758.5	771.0	773.9	762.2
27.5°	726.2	735.1	749.2	751.2	741.3
30°	701.5	709.8	725.3	728.7	718.7
32.5°	676.4	684.7	701.9	704.7	695.0
35°	648.6	658.7	674.3	679.0	668.0
37.5°	620.2	630.1	647.8	652.0	640.2
40°	590.8	600.6	618.0	621.5	610.1
42.5°	560.7	570.5	589.1	589.7	580.3
45°	530.0	539.4	556.8	557.2	546.3
47.5°	498.9	508.4	523.8	522.1	511.8
50°	467.3	476.4	489.9	486.4	477.1
52.5°	434.7	443.5	456.3	450.6	441.8
55°	401.9	410.0	420.7	414.6	407.8
57.5°	368.8	377.0	385.2	379.0	373.1
60°	335.4	342.6	349.3	343.1	338.5
62.5°	301.5	307.7	313.5	307.5	303.2
65°	267.2	272.6	277.4	271.9	267.4
67.5°	233.1	237.7	242.1	236.4	231.7
70°	199.0	202.9	207.0	201.1	196.7
72.5°	165.3	168.8	172.4	166.7	162.9
75°	132.6	135.6	138.6	133.5	130.5
77.5°	101.3	103.9	105.9	102.7	99.8
80°	72.3	74.2	75.4	74.1	71.5
82.5°	46.5	47.8	48.5	48.4	46.7
85°	25.3	25.7	26.9	27.2	26.3
87.5°	9.8	10.4	10.7	11.5	10.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)