

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: P490037

Luminaire Tested: **CLP-12-2-INS-A19156-LD4-1STD-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: P490037
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-35-120-EDD
Description: 1X2 CLP LED LUMINAIRE WITH A19156 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

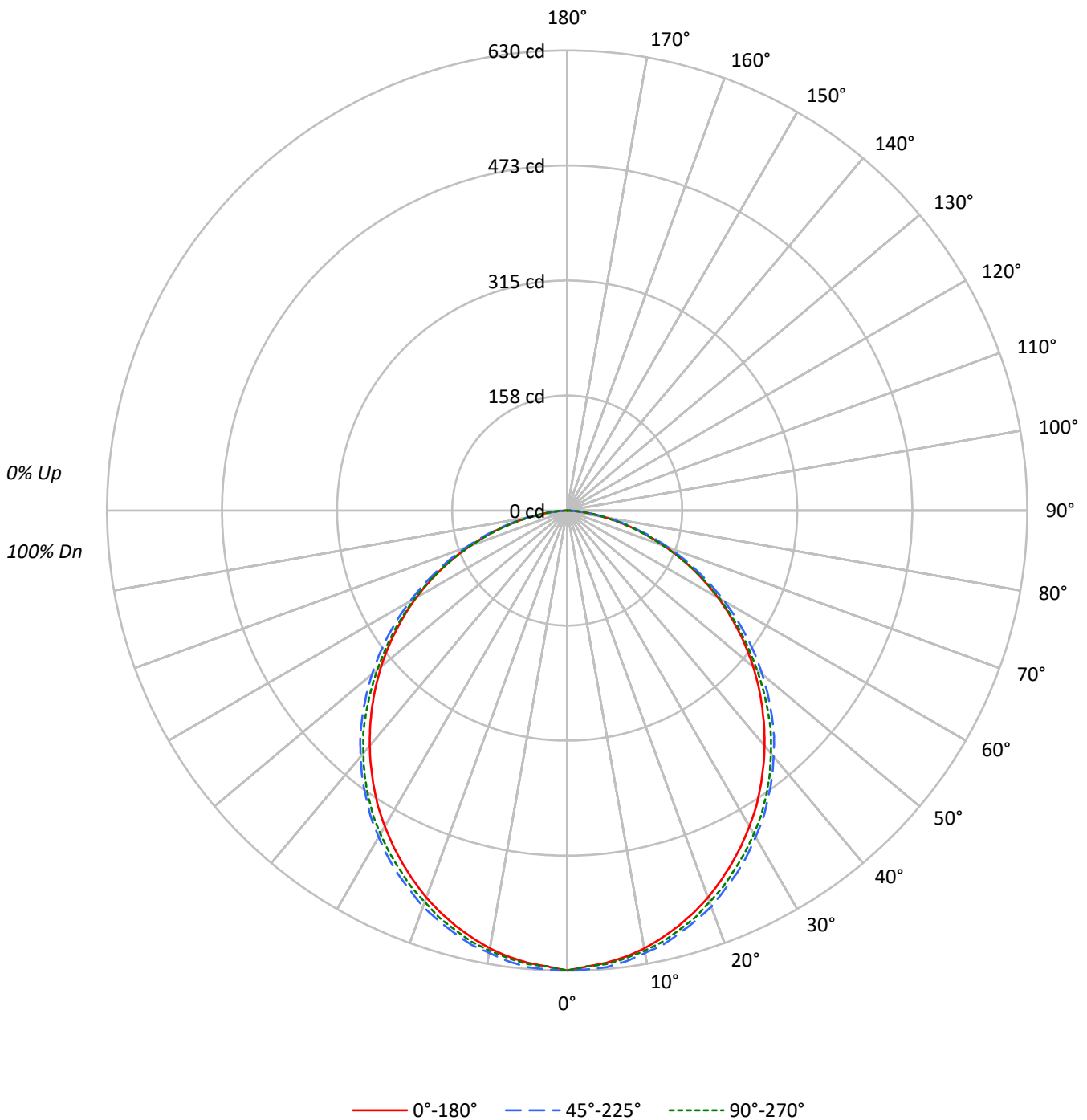
Lumens per Lamp: N/A
Luminaire Lumens: 1655.3 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	3388	3388	3388
5°	3357	3389	3368
10°	3327	3360	3344
15°	3280	3334	3310
20°	3229	3305	3266
25°	3166	3258	3220
30°	3102	3207	3177
35°	3032	3152	3123
40°	2954	3089	3050
45°	2870	3016	2958
50°	2784	2919	2843
55°	2683	2808	2722
60°	2568	2676	2593
65°	2421	2514	2422
70°	2228	2318	2203
75°	1961	2050	1932
80°	1593	1664	1574
85°	1112	1186	1155



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.3	3.6
10°-20°	168.0	10.2
20°-30°	250.6	15.1
30°-40°	297.0	17.9
40°-50°	300.5	18.2
50°-60°	262.4	15.9
60°-70°	191.8	11.6
70°-80°	102.0	6.2
80°-90°	23.6	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°	478.0	28.9
0°-40°	774.9	46.8
0°-60°	1337.9	80.8
0°-90°	1655.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1655.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	630	630	630	630	630	
5°	621	623	627	629	623	59
15°	589	593	598	602	594	166
25°	533	540	549	551	542	246
35°	462	469	480	483	475	289
45°	377	384	396	396	389	291
55°	286	292	299	295	290	256
65°	190	194	197	194	190	188
75°	94	96	99	95	93	100
85°	18	18	19	19	19	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	629.6	629.6	629.6	629.6	629.6
2.5°	624.7	626.7	628.8	629.7	624.6
5°	621.4	622.6	627.3	628.7	623.4
7.5°	616.0	617.8	622.3	623.0	617.9
10°	608.7	611.8	614.9	618.1	611.9
12.5°	599.3	603.6	608.7	609.3	604.6
15°	588.7	592.7	598.3	601.9	594.1
17.5°	576.9	580.7	588.0	588.6	583.9
20°	563.8	568.5	577.1	578.6	570.2
22.5°	548.8	555.2	562.4	563.8	557.6
25°	533.1	539.7	548.6	550.6	542.3
27.5°	516.7	523.0	533.1	534.5	527.5
30°	499.1	505.0	516.1	518.5	511.3
32.5°	481.3	487.2	499.4	501.4	494.5
35°	461.5	468.7	479.8	483.1	475.3
37.5°	441.3	448.3	460.9	463.9	455.5
40°	420.4	427.3	439.7	442.2	434.1
42.5°	399.0	405.9	419.2	419.6	412.9
45°	377.1	383.8	396.2	396.5	388.7
47.5°	355.0	361.7	372.7	371.5	364.1
50°	332.5	338.9	348.6	346.1	339.5
52.5°	309.3	315.5	324.6	320.6	314.3
55°	285.9	291.7	299.3	295.0	290.1
57.5°	262.4	268.2	274.1	269.7	265.5
60°	238.6	243.8	248.6	244.1	240.9
62.5°	214.5	218.9	223.0	218.8	215.8
65°	190.1	194.0	197.4	193.5	190.2
67.5°	165.8	169.1	172.3	168.2	164.8
70°	141.6	144.4	147.3	143.1	140.0
72.5°	117.6	120.1	122.7	118.6	115.9
75°	94.3	96.5	98.6	95.0	92.9
77.5°	72.1	73.9	75.4	73.1	71.0
80°	51.4	52.8	53.7	52.7	50.8
82.5°	33.1	34.0	34.5	34.4	33.2
85°	18.0	18.3	19.2	19.4	18.7
87.5°	7.0	7.4	7.6	8.2	7.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)