

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: P490033

Luminaire Tested: **CLP-12-2-INS-A19156-LD4-1STD-27-120-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: P490033
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-27-120-EDD
Description: 1X2 CLP LED LUMINAIRE WITH A19156 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

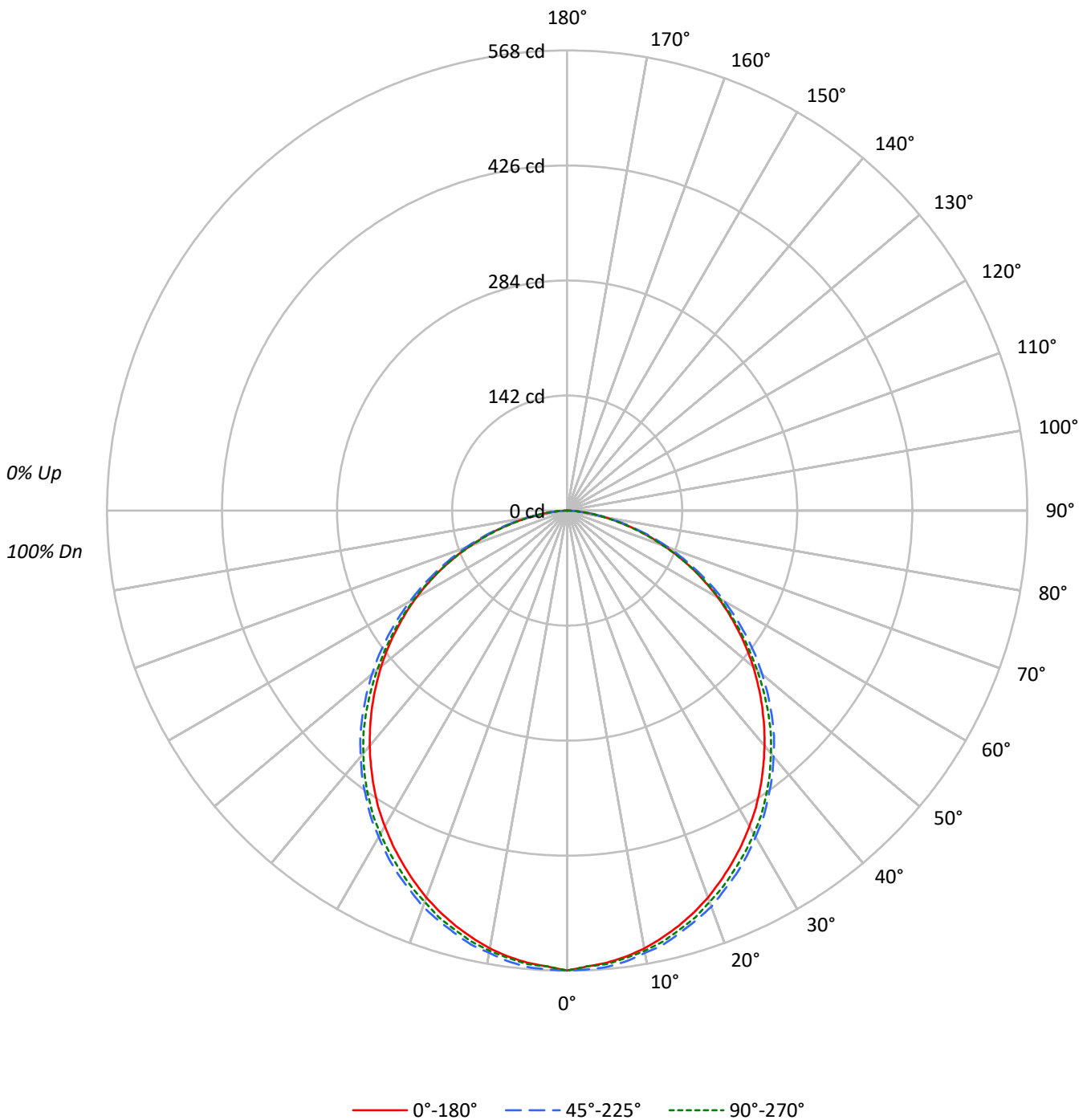
Lumens per Lamp: N/A
Luminaire Lumens: 1492.3 lumens
Efficiency: N/A
Efficacy: 89.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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	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°	3055	3055	3055
5°	3026	3055	3036
10°	2999	3029	3015
15°	2958	3005	2984
20°	2911	2980	2944
25°	2854	2937	2903
30°	2797	2891	2865
35°	2733	2842	2815
40°	2663	2785	2750
45°	2588	2718	2667
50°	2510	2632	2562
55°	2419	2533	2455
60°	2315	2412	2338
65°	2183	2266	2184
70°	2008	2090	1986
75°	1768	1849	1740
80°	1438	1500	1420
85°	1000	1068	1044



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.5	3.6
10°-20°	151.5	10.2
20°-30°	225.9	15.1
30°-40°	267.7	17.9
40°-50°	270.9	18.2
50°-60°	236.6	15.9
60°-70°	172.9	11.6
70°-80°	92.0	6.2
80°-90°	21.3	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°	430.9	28.9
0°-40°	698.6	46.8
0°-60°	1206.1	80.8
0°-90°	1492.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1492.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	568	568	568	568	568	
5°	560	561	566	567	562	53
15°	531	534	539	543	536	150
25°	481	486	495	496	489	221
35°	416	422	432	436	428	260
45°	340	346	357	357	350	262
55°	258	263	270	266	262	230
65°	171	175	178	174	172	170
75°	85	87	89	86	84	90
85°	16	16	17	17	17	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	567.6	567.6	567.6	567.6	567.6
2.5°	563.2	565.0	566.9	567.7	563.1
5°	560.2	561.3	565.5	566.8	562.0
7.5°	555.4	557.0	561.1	561.6	557.0
10°	548.8	551.6	554.3	557.3	551.7
12.5°	540.3	544.1	548.8	549.3	545.0
15°	530.8	534.3	539.3	542.6	535.6
17.5°	520.1	523.6	530.1	530.7	526.4
20°	508.2	512.5	520.3	521.7	514.0
22.5°	494.8	500.5	507.0	508.3	502.7
25°	480.6	486.5	494.6	496.4	488.9
27.5°	465.8	471.5	480.6	481.9	475.5
30°	450.0	455.3	465.2	467.4	461.0
32.5°	433.9	439.2	450.2	452.1	445.8
35°	416.0	422.5	432.5	435.6	428.5
37.5°	397.8	404.2	415.5	418.2	410.7
40°	379.0	385.2	396.4	398.7	391.4
42.5°	359.7	366.0	377.9	378.3	372.2
45°	340.0	346.0	357.1	357.4	350.4
47.5°	320.0	326.1	336.0	334.9	328.3
50°	299.8	305.6	314.3	312.0	306.0
52.5°	278.8	284.5	292.7	289.0	283.4
55°	257.8	263.0	269.9	265.9	261.6
57.5°	236.6	241.8	247.1	243.1	239.3
60°	215.1	219.8	224.1	220.1	217.2
62.5°	193.4	197.3	201.1	197.2	194.5
65°	171.4	174.9	177.9	174.4	171.5
67.5°	149.5	152.5	155.3	151.6	148.6
70°	127.6	130.2	132.8	129.0	126.2
72.5°	106.0	108.3	110.6	106.9	104.5
75°	85.0	87.0	88.9	85.6	83.7
77.5°	65.0	66.6	68.0	65.9	64.0
80°	46.4	47.6	48.4	47.5	45.8
82.5°	29.8	30.7	31.1	31.0	29.9
85°	16.2	16.5	17.3	17.4	16.9
87.5°	6.3	6.7	6.9	7.4	6.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)