

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: P490040

Luminaire Tested: **CLP-12-2-INS-A19156-LD4-1STD-50-120-EDD-90**

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: P490040
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-50-120-EDD-90
Description: 1X2 CLP LED LUMINAIRE WITH A19156 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

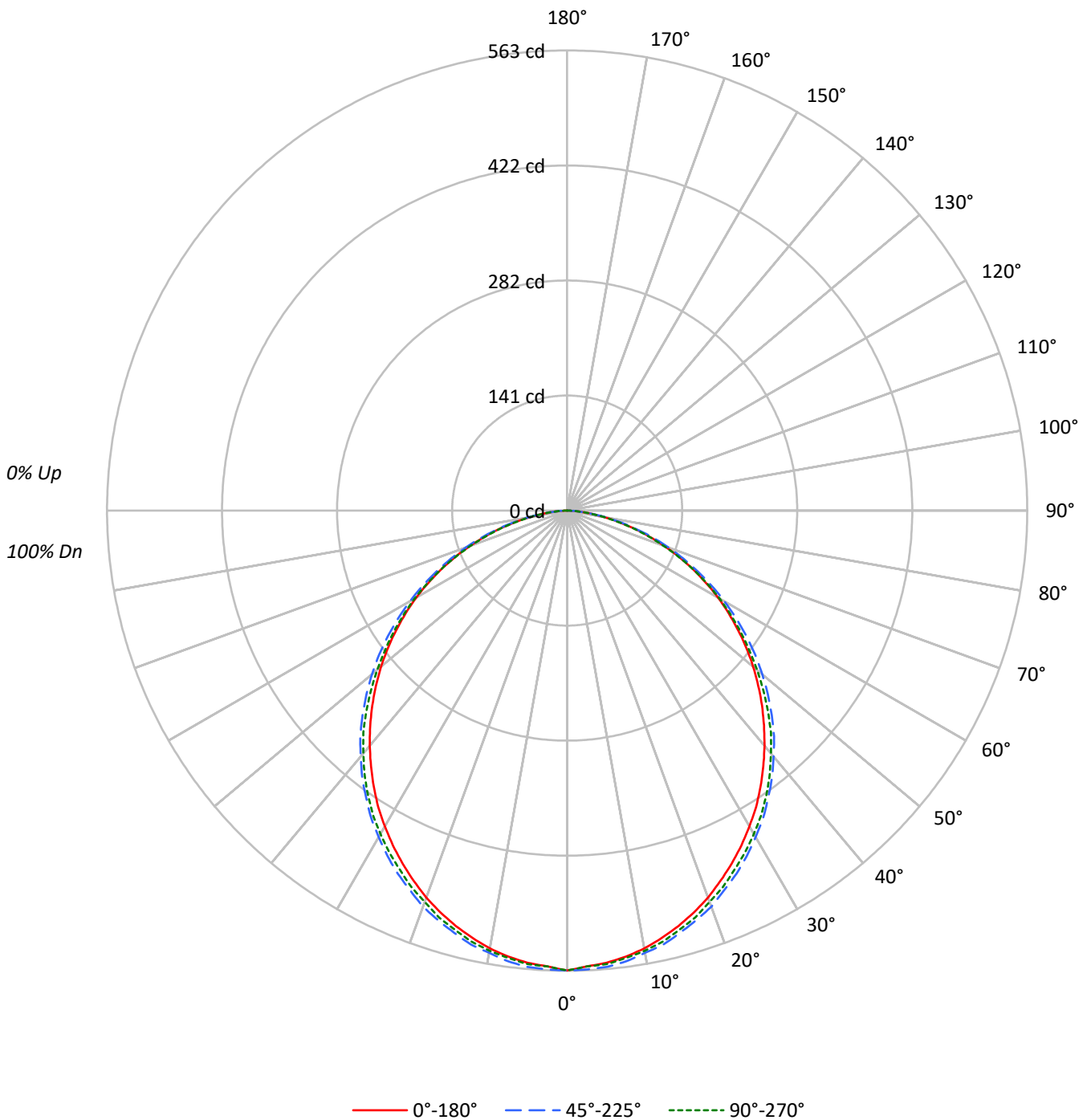
Lumens per Lamp: N/A
Luminaire Lumens: 1479.2 lumens
Efficiency: N/A
Efficacy: 89.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	3028	3028	3028
5°	3000	3028	3010
10°	2972	3002	2988
15°	2931	2979	2958
20°	2885	2954	2918
25°	2829	2911	2878
30°	2772	2866	2839
35°	2710	2817	2791
40°	2639	2760	2725
45°	2565	2694	2643
50°	2488	2608	2540
55°	2397	2510	2433
60°	2296	2391	2317
65°	2164	2246	2165
70°	1991	2071	1969
75°	1753	1832	1726
80°	1426	1488	1407
85°	994	1056	1031



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.0	3.6
10°-20°	150.2	10.2
20°-30°	224.0	15.1
30°-40°	265.4	17.9
40°-50°	268.5	18.2
50°-60°	234.5	15.9
60°-70°	171.4	11.6
70°-80°	91.2	6.2
80°-90°	21.1	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°	427.1	28.9
0°-40°	692.5	46.8
0°-60°	1195.6	80.8
0°-90°	1479.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1479.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	563	563	563	563	563	
5°	555	556	560	562	557	53
15°	526	530	535	538	531	148
25°	476	482	490	492	485	219
35°	412	419	429	432	425	258
45°	337	343	354	354	347	260
55°	256	261	268	264	259	228
65°	170	173	176	173	170	168
75°	84	86	88	85	83	90
85°	16	16	17	17	17	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	562.6	562.6	562.6	562.6	562.6
2.5°	558.2	560.1	561.9	562.8	558.2
5°	555.3	556.4	560.5	561.8	557.1
7.5°	550.5	552.1	556.1	556.7	552.1
10°	543.9	546.7	549.4	552.4	546.8
12.5°	535.6	539.4	543.9	544.5	540.2
15°	526.1	529.6	534.6	537.8	530.9
17.5°	515.6	519.0	525.4	526.0	521.8
20°	503.8	508.0	515.7	517.1	509.5
22.5°	490.4	496.1	502.5	503.8	498.3
25°	476.4	482.3	490.2	492.1	484.6
27.5°	461.7	467.4	476.3	477.6	471.4
30°	446.0	451.3	461.2	463.3	456.9
32.5°	430.1	435.4	446.3	448.1	441.9
35°	412.4	418.8	428.7	431.7	424.8
37.5°	394.3	400.6	411.9	414.6	407.1
40°	375.6	381.9	392.9	395.2	387.9
42.5°	356.5	362.7	374.6	374.9	369.0
45°	337.0	343.0	354.0	354.3	347.3
47.5°	317.2	323.2	333.1	332.0	325.4
50°	297.1	302.9	311.5	309.3	303.4
52.5°	276.4	282.0	290.1	286.5	280.9
55°	255.5	260.7	267.5	263.6	259.3
57.5°	234.5	239.7	244.9	241.0	237.2
60°	213.3	217.8	222.1	218.1	215.3
62.5°	191.7	195.6	199.3	195.5	192.8
65°	169.9	173.3	176.4	172.9	170.0
67.5°	148.2	151.1	153.9	150.3	147.3
70°	126.5	129.0	131.6	127.9	125.1
72.5°	105.1	107.3	109.6	106.0	103.6
75°	84.3	86.2	88.1	84.9	83.0
77.5°	64.4	66.1	67.4	65.3	63.5
80°	46.0	47.2	48.0	47.1	45.4
82.5°	29.5	30.4	30.8	30.8	29.7
85°	16.1	16.4	17.1	17.3	16.7
87.5°	6.2	6.6	6.8	7.3	6.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)