

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: P490036

Luminaire Tested: **CLP-12-2-INS-A19156-LD4-1STD-35-120-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: P490036  
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-90  
Description: 1X2 CLP LED LUMINAIRE WITH A19156 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

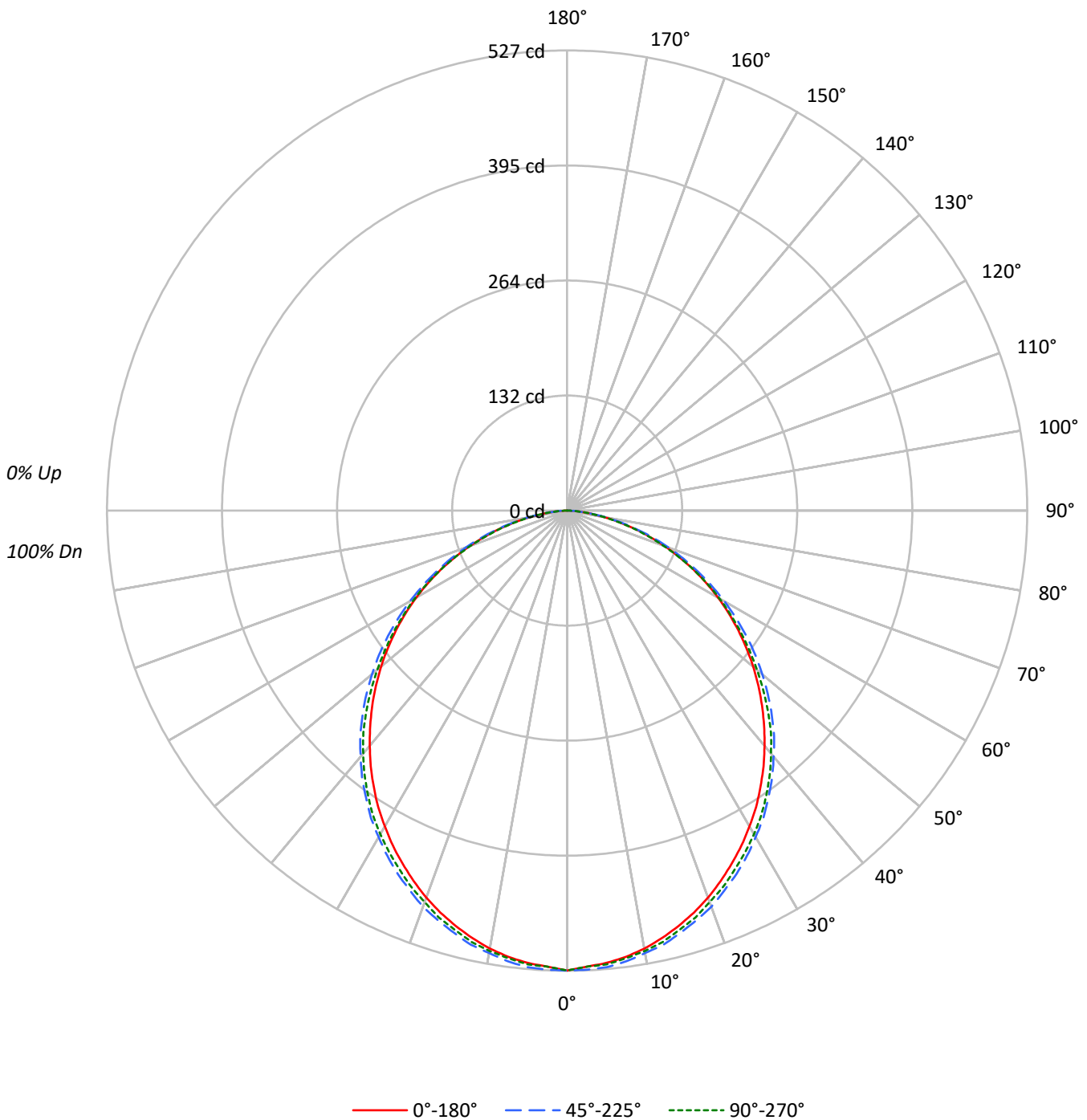
Lumens per Lamp: N/A  
Luminaire Lumens: 1385.1 lumens  
Efficiency: N/A  
Efficacy: 83.4 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 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°	2835	2835	2835
5°	2809	2836	2818
10°	2783	2812	2798
15°	2745	2789	2770
20°	2702	2766	2733
25°	2649	2726	2695
30°	2596	2683	2659
35°	2537	2638	2613
40°	2471	2585	2552
45°	2402	2523	2475
50°	2329	2442	2379
55°	2245	2350	2278
60°	2150	2239	2170
65°	2026	2104	2027
70°	1865	1939	1843
75°	1641	1716	1616
80°	1333	1392	1317
85°	926	988	963



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	49.6	3.6
10°-20°	140.6	10.2
20°-30°	209.7	15.1
30°-40°	248.5	17.9
40°-50°	251.5	18.2
50°-60°	219.6	15.9
60°-70°	160.5	11.6
70°-80°	85.4	6.2
80°-90°	19.7	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°	399.9	28.9
0°-40°	648.4	46.8
0°-60°	1119.5	80.8
0°-90°	1385.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1385.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	527	527	527	527	527	
5°	520	521	525	526	522	49
15°	493	496	501	504	497	139
25°	446	452	459	461	454	206
35°	386	392	402	404	398	242
45°	316	321	332	332	325	243
55°	239	244	250	247	243	214
65°	159	162	165	162	159	157
75°	79	81	82	80	78	84
85°	15	15	16	16	16	19
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	526.8	526.8	526.8	526.8	526.8
2.5°	522.7	524.4	526.2	527.0	522.7
5°	520.0	521.0	524.9	526.1	521.6
7.5°	515.5	517.0	520.7	521.3	517.0
10°	509.3	512.0	514.5	517.2	512.0
12.5°	501.5	505.1	509.3	509.8	505.9
15°	492.6	495.9	500.6	503.6	497.1
17.5°	482.8	485.9	492.0	492.5	488.6
20°	471.7	475.7	482.9	484.2	477.1
22.5°	459.2	464.5	470.6	471.8	466.6
25°	446.1	451.6	459.1	460.8	453.8
27.5°	432.4	437.6	446.0	447.3	441.4
30°	417.7	422.6	431.8	433.9	427.9
32.5°	402.7	407.7	417.9	419.6	413.8
35°	386.2	392.2	401.5	404.3	397.7
37.5°	369.3	375.1	385.7	388.2	381.2
40°	351.7	357.6	367.9	370.0	363.3
42.5°	333.8	339.7	350.8	351.1	345.5
45°	315.6	321.2	331.5	331.8	325.2
47.5°	297.0	302.7	311.9	310.8	304.7
50°	278.2	283.6	291.7	289.6	284.1
52.5°	258.8	264.0	271.7	268.3	263.0
55°	239.3	244.1	250.5	246.8	242.8
57.5°	219.6	224.4	229.3	225.7	222.1
60°	199.7	204.0	208.0	204.2	201.6
62.5°	179.5	183.2	186.6	183.1	180.5
65°	159.1	162.3	165.2	161.9	159.2
67.5°	138.8	141.5	144.1	140.7	137.9
70°	118.5	120.8	123.2	119.7	117.1
72.5°	98.4	100.5	102.6	99.2	97.0
75°	78.9	80.7	82.5	79.5	77.7
77.5°	60.3	61.9	63.1	61.1	59.4
80°	43.0	44.2	44.9	44.1	42.5
82.5°	27.7	28.5	28.9	28.8	27.8
85°	15.0	15.3	16.0	16.2	15.6
87.5°	5.8	6.2	6.4	6.9	6.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)