

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: P490069

Luminaire Tested: **CLP-12-2-INS-A19156-LD4-2STD-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: P490069  
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-LD4-2STD-27-120-EDD  
Description: 1X2 CLP LED LUMINAIRE WITH A19156 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

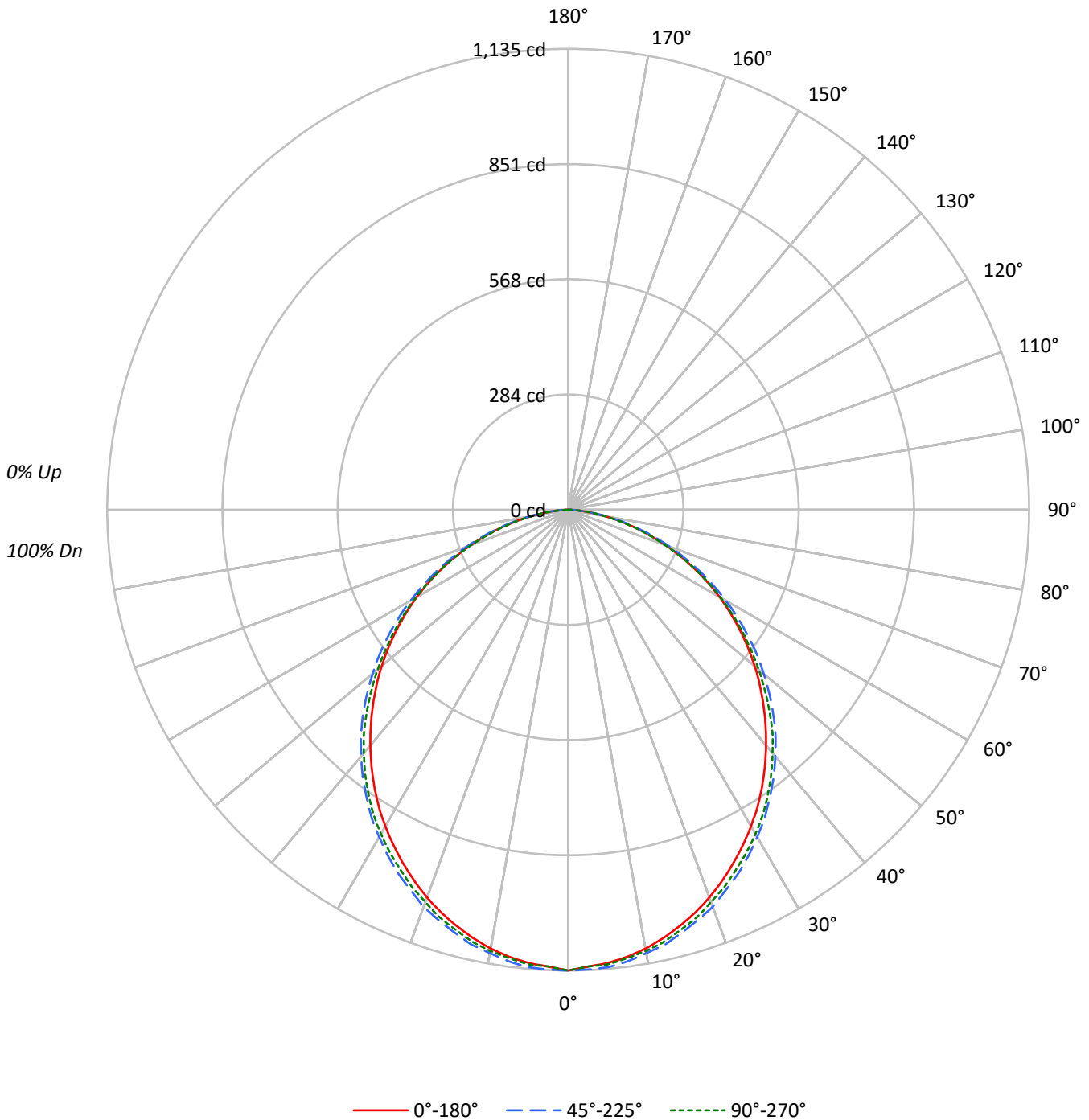
Lumens per Lamp: N/A  
Luminaire Lumens: 2984.6 lumens  
Efficiency: N/A  
Efficacy: 89.6 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 33.3  
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°	6110	6110	6110
5°	6054	6110	6072
10°	5998	6058	6030
15°	5914	6010	5968
20°	5822	5960	5888
25°	5708	5874	5807
30°	5593	5783	5730
35°	5467	5684	5631
40°	5325	5570	5500
45°	5176	5437	5334
50°	5020	5262	5125
55°	4838	5064	4908
60°	4632	4824	4675
65°	4365	4532	4368
70°	4016	4178	3972
75°	3537	3697	3483
80°	2873	3000	2842
85°	2001	2130	2081



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	106.9	3.6
10°-20°	303.0	10.2
20°-30°	451.9	15.1
30°-40°	535.5	17.9
40°-50°	541.8	18.2
50°-60°	473.2	15.9
60°-70°	345.8	11.6
70°-80°	184.0	6.2
80°-90°	42.5	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°	861.8	28.9
0°-40°	1397.3	46.8
0°-60°	2412.3	80.8
0°-90°	2984.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2984.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1135	1135	1135	1135	1135	
5°	1120	1123	1131	1134	1124	106
15°	1062	1069	1079	1085	1071	299
25°	961	973	989	993	978	443
35°	832	845	865	871	857	520
45°	680	692	714	715	701	525
55°	516	526	540	532	523	461
65°	343	350	356	349	343	339
75°	170	174	178	171	168	181
85°	32	33	34	35	34	41
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1135.2	1135.2	1135.2	1135.2	1135.2
2.5°	1126.4	1130.0	1133.8	1135.5	1126.2
5°	1120.5	1122.6	1131.0	1133.6	1124.0
7.5°	1110.8	1113.9	1122.1	1123.3	1114.1
10°	1097.5	1103.2	1108.6	1114.5	1103.3
12.5°	1080.6	1088.3	1097.5	1098.6	1090.1
15°	1061.5	1068.6	1078.7	1085.2	1071.1
17.5°	1040.3	1047.1	1060.1	1061.3	1052.8
20°	1016.5	1025.0	1040.6	1043.3	1028.1
22.5°	989.5	1001.0	1014.0	1016.6	1005.4
25°	961.2	973.1	989.2	992.8	977.8
27.5°	931.7	943.0	961.1	963.7	951.1
30°	900.0	910.6	930.5	934.9	922.0
32.5°	867.8	878.5	900.5	904.1	891.6
35°	832.1	845.1	865.1	871.1	857.0
37.5°	795.7	808.3	831.0	836.5	821.3
40°	757.9	770.5	792.8	797.3	782.8
42.5°	719.4	731.9	755.8	756.5	744.4
45°	680.0	692.0	714.3	714.9	700.8
47.5°	640.0	652.2	672.1	669.8	656.6
50°	599.6	611.1	628.5	624.0	612.1
52.5°	557.7	568.9	585.4	578.0	566.8
55°	515.6	526.0	539.7	531.9	523.1
57.5°	473.1	483.6	494.2	486.2	478.7
60°	430.3	439.5	448.2	440.1	434.3
62.5°	386.8	394.7	402.1	394.5	389.0
65°	342.8	349.7	355.9	348.8	343.0
67.5°	299.0	304.9	310.6	303.3	297.2
70°	255.2	260.3	265.5	258.0	252.4
72.5°	212.1	216.6	221.2	213.8	209.0
75°	170.1	174.0	177.8	171.3	167.5
77.5°	130.0	133.3	135.9	131.8	128.1
80°	92.7	95.2	96.8	95.1	91.7
82.5°	59.6	61.4	62.2	62.1	59.8
85°	32.4	33.0	34.5	34.9	33.7
87.5°	12.5	13.4	13.7	14.8	13.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)