

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: P490070

Luminaire Tested: **CLP-12-2-INS-A19156-LD4-2STD-30-120-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: P490070  
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-30-120-EDD-90  
Description: 1X2 CLP LED LUMINAIRE WITH A19156 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

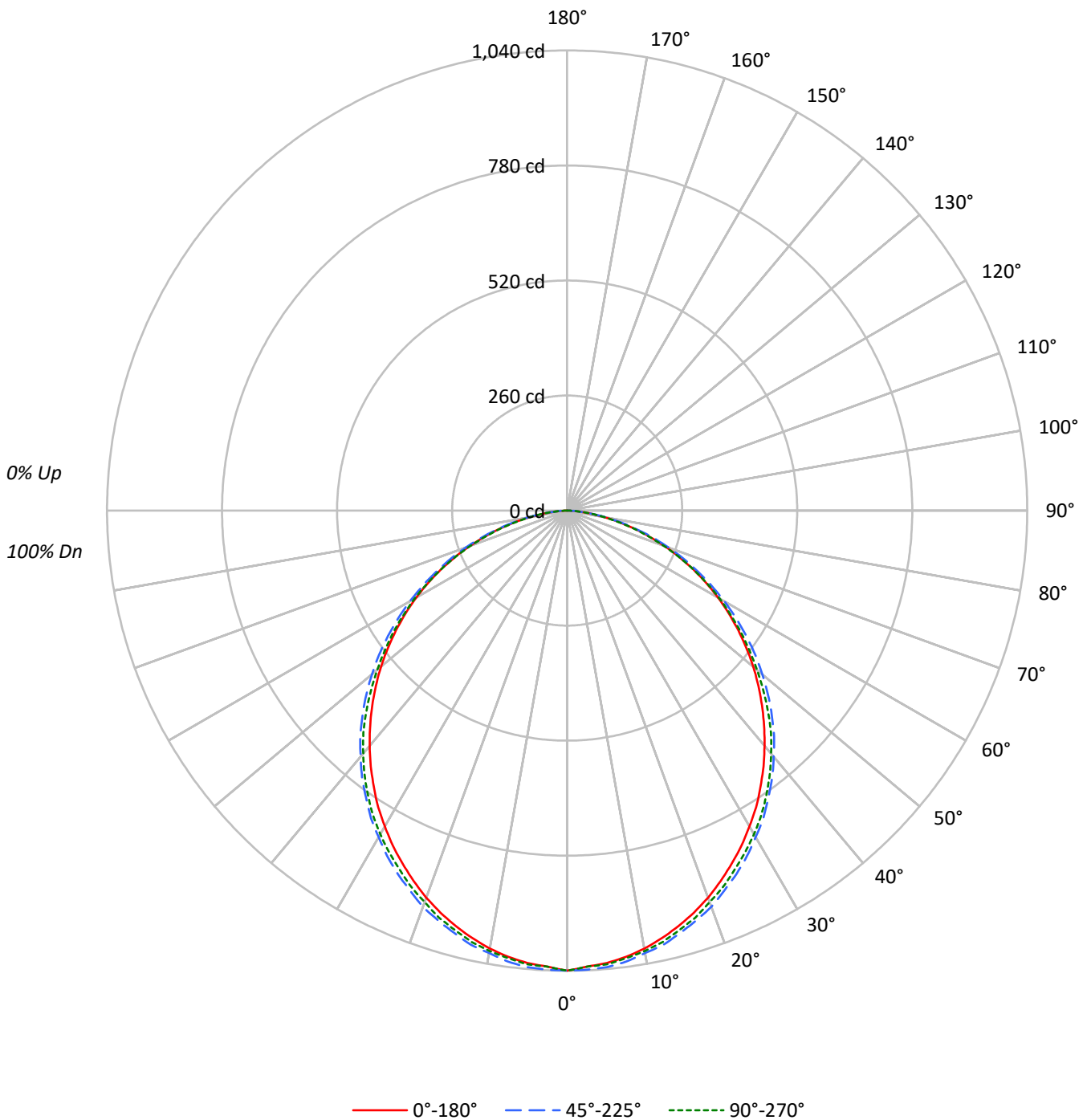
Lumens per Lamp: N/A  
Luminaire Lumens: 2733.7 lumens  
Efficiency: N/A  
Efficacy: 82.1 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 33.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°	5596	5596	5596
5°	5545	5596	5562
10°	5493	5549	5523
15°	5417	5505	5467
20°	5332	5459	5393
25°	5228	5380	5318
30°	5123	5297	5248
35°	5007	5206	5158
40°	4877	5102	5037
45°	4740	4979	4886
50°	4598	4820	4694
55°	4431	4638	4496
60°	4242	4419	4282
65°	3999	4152	4001
70°	3679	3827	3638
75°	3240	3385	3190
80°	2631	2746	2603
85°	1834	1951	1908



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	97.9	3.6
10°-20°	277.5	10.2
20°-30°	413.9	15.1
30°-40°	490.5	17.9
40°-50°	496.3	18.2
50°-60°	433.4	15.9
60°-70°	316.7	11.6
70°-80°	168.5	6.2
80°-90°	38.9	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°	789.3	28.9
0°-40°	1279.8	46.8
0°-60°	2209.5	80.8
0°-90°	2733.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2733.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1040	1040	1040	1040	1040	
5°	1026	1028	1036	1038	1030	97
15°	972	979	988	994	981	274
25°	880	891	906	909	896	406
35°	762	774	792	798	785	477
45°	623	634	654	655	642	480
55°	472	482	494	487	479	422
65°	314	320	326	320	314	311
75°	156	159	163	157	153	166
85°	30	30	32	32	31	38
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1039.8	1039.8	1039.8	1039.8	1039.8
2.5°	1031.7	1035.0	1038.5	1040.0	1031.6
5°	1026.3	1028.2	1035.9	1038.3	1029.5
7.5°	1017.4	1020.3	1027.8	1028.9	1020.4
10°	1005.2	1010.4	1015.4	1020.8	1010.6
12.5°	989.8	996.8	1005.2	1006.2	998.4
15°	972.3	978.8	988.0	994.0	981.1
17.5°	952.8	959.1	971.0	972.1	964.3
20°	931.0	938.8	953.1	955.6	941.7
22.5°	906.3	916.8	928.8	931.1	920.9
25°	880.4	891.3	906.0	909.4	895.6
27.5°	853.4	863.8	880.3	882.7	871.1
30°	824.3	834.1	852.3	856.3	844.5
32.5°	794.9	804.6	824.8	828.1	816.6
35°	762.1	774.1	792.4	797.9	785.0
37.5°	728.8	740.4	761.2	766.1	752.3
40°	694.2	705.7	726.2	730.3	717.0
42.5°	658.9	670.4	692.3	692.9	681.9
45°	622.8	633.9	654.2	654.8	641.9
47.5°	586.2	597.4	615.6	613.5	601.4
50°	549.2	559.8	575.7	571.6	560.6
52.5°	510.8	521.1	536.2	529.4	519.1
55°	472.2	481.8	494.3	487.2	479.2
57.5°	433.3	443.0	452.6	445.4	438.4
60°	394.1	402.6	410.5	403.1	397.8
62.5°	354.3	361.5	368.3	361.3	356.3
65°	314.0	320.3	326.0	319.5	314.2
67.5°	273.9	279.3	284.5	277.8	272.2
70°	233.8	238.4	243.2	236.3	231.2
72.5°	194.2	198.4	202.6	195.9	191.4
75°	155.8	159.4	162.8	156.9	153.4
77.5°	119.1	122.1	124.5	120.7	117.3
80°	84.9	87.2	88.6	87.1	84.0
82.5°	54.6	56.2	57.0	56.9	54.8
85°	29.7	30.2	31.6	32.0	30.9
87.5°	11.5	12.2	12.6	13.5	12.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)