

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: P490075

Luminaire Tested: **CLP-12-2-INS-A19156-LD4-2STD-40-120-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: P490075  
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-40-120-EDD  
Description: 1X2 CLP LED LUMINAIRE WITH A19156 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

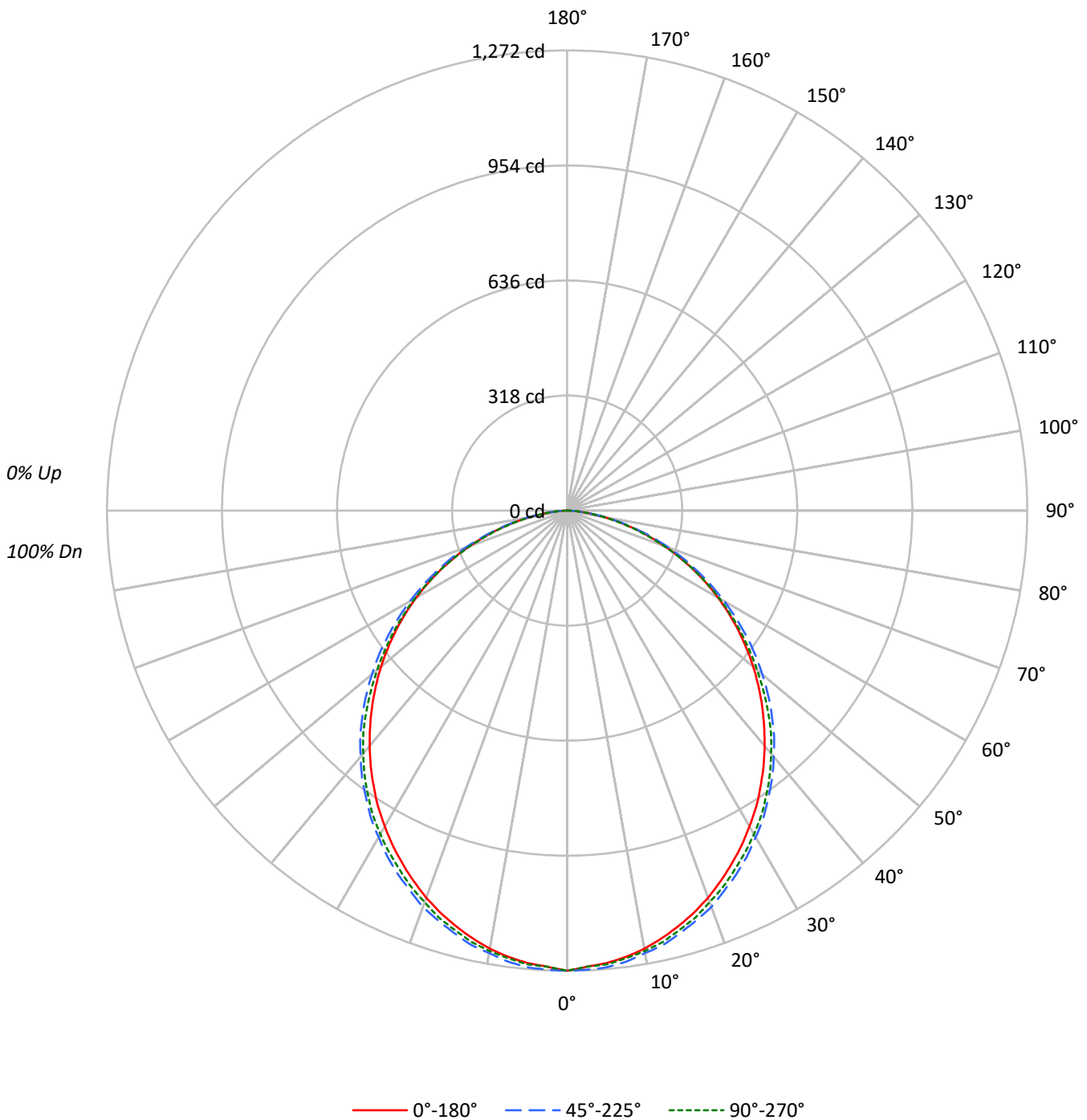
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3343.8 lumens  
Efficiency: N/A  
Efficacy: 100.4 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): 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°	6845	6845	6845
5°	6782	6846	6803
10°	6720	6788	6755
15°	6627	6734	6686
20°	6522	6678	6597
25°	6395	6581	6505
30°	6266	6479	6419
35°	6125	6368	6309
40°	5965	6240	6161
45°	5798	6091	5976
50°	5624	5896	5742
55°	5420	5674	5499
60°	5189	5405	5238
65°	4890	5077	4894
70°	4500	4681	4450
75°	3963	4142	3901
80°	3220	3360	3183
85°	2242	2390	2334



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	119.8	3.6
10°-20°	339.4	10.2
20°-30°	506.3	15.1
30°-40°	599.9	17.9
40°-50°	607.0	18.2
50°-60°	530.2	15.9
60°-70°	387.4	11.6
70°-80°	206.1	6.2
80°-90°	47.7	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°	965.5	28.9
0°-40°	1565.4	46.8
0°-60°	2702.6	80.8
0°-90°	3343.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3343.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1272	1272	1272	1272	1272	
5°	1255	1258	1267	1270	1259	119
15°	1189	1197	1208	1216	1200	335
25°	1077	1090	1108	1112	1096	496
35°	932	947	969	976	960	583
45°	762	775	800	801	785	588
55°	578	589	605	596	586	516
65°	384	392	399	391	384	380
75°	191	195	199	192	188	203
85°	36	37	39	39	38	46
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1271.9	1271.9	1271.9	1271.9	1271.9
2.5°	1261.9	1266.0	1270.3	1272.1	1261.8
5°	1255.3	1257.7	1267.1	1270.0	1259.3
7.5°	1244.4	1248.0	1257.2	1258.5	1248.1
10°	1229.6	1236.0	1242.0	1248.7	1236.1
12.5°	1210.6	1219.3	1229.6	1230.8	1221.2
15°	1189.3	1197.3	1208.5	1215.8	1200.0
17.5°	1165.5	1173.1	1187.7	1189.0	1179.5
20°	1138.8	1148.4	1165.9	1168.9	1151.8
22.5°	1108.6	1121.5	1136.0	1139.0	1126.4
25°	1076.9	1090.2	1108.2	1112.3	1095.5
27.5°	1043.8	1056.5	1076.8	1079.7	1065.5
30°	1008.3	1020.2	1042.5	1047.4	1032.9
32.5°	972.2	984.2	1008.8	1012.9	998.9
35°	932.2	946.8	969.2	976.0	960.2
37.5°	891.4	905.6	931.0	937.1	920.2
40°	849.1	863.2	888.2	893.3	877.0
42.5°	805.9	820.0	846.8	847.6	834.0
45°	761.8	775.3	800.2	800.9	785.1
47.5°	717.0	730.7	752.9	750.4	735.6
50°	671.7	684.7	704.2	699.1	685.8
52.5°	624.8	637.4	655.8	647.6	635.0
55°	577.6	589.3	604.7	595.9	586.1
57.5°	530.1	541.8	553.6	544.8	536.3
60°	482.1	492.4	502.1	493.1	486.6
62.5°	433.3	442.2	450.5	441.9	435.8
65°	384.0	391.8	398.7	390.8	384.3
67.5°	335.0	341.6	348.0	339.8	333.0
70°	286.0	291.7	297.5	289.0	282.8
72.5°	237.6	242.6	247.8	239.6	234.2
75°	190.6	194.9	199.2	191.9	187.6
77.5°	145.6	149.3	152.3	147.6	143.5
80°	103.9	106.7	108.4	106.5	102.7
82.5°	66.8	68.8	69.7	69.6	67.1
85°	36.3	37.0	38.7	39.1	37.8
87.5°	14.0	15.0	15.4	16.6	15.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)