

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: P490044

Luminaire Tested: **CLP-12-2-INS-A19156-LD4-2HI-27-120-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: P490044
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-LD4-2HI-27-120-EDD-90
Description: 1X2 CLP LED LUMINAIRE WITH A19156 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

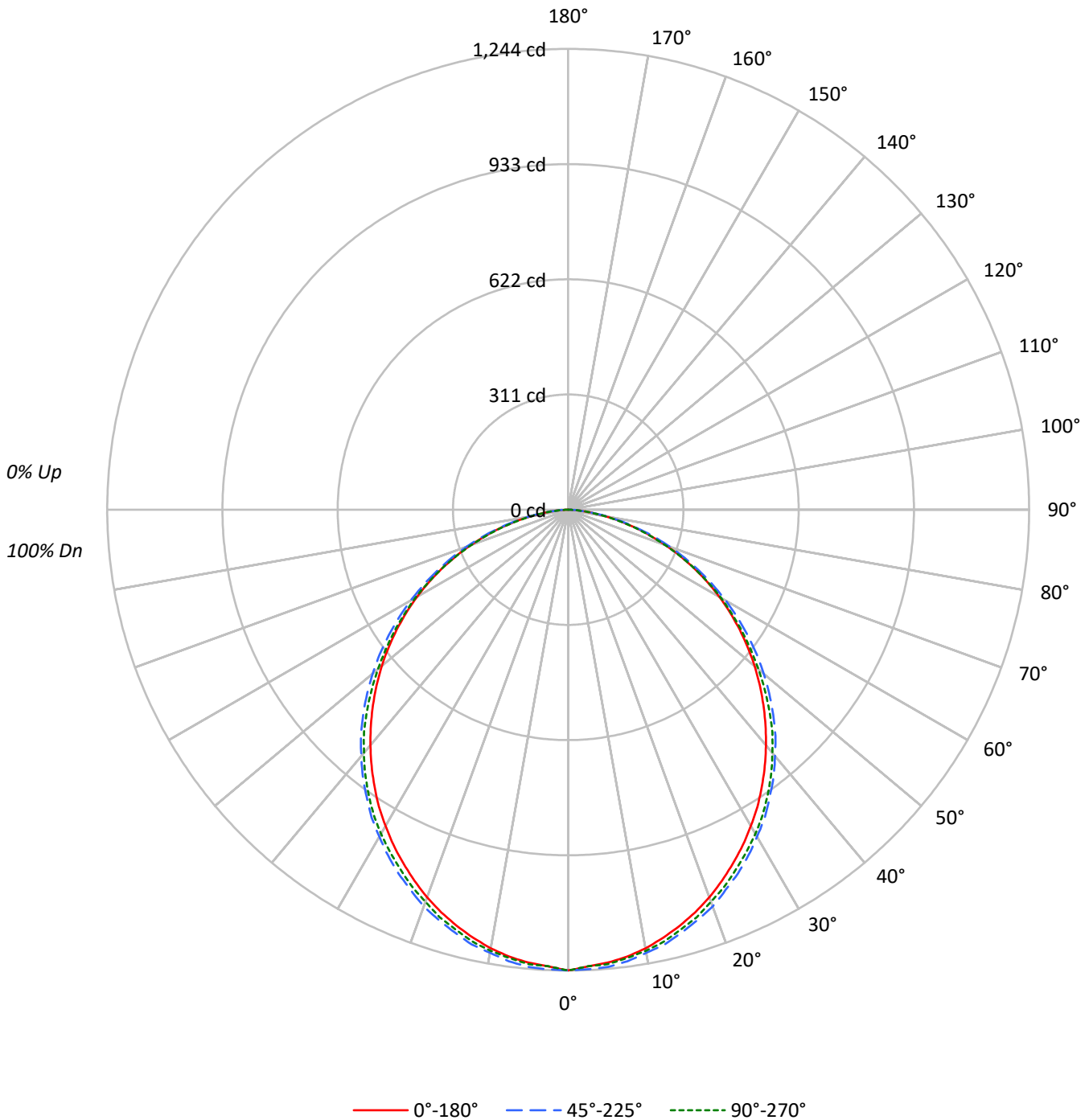
Lumens per Lamp: N/A
Luminaire Lumens: 3269.4 lumens
Efficiency: N/A
Efficacy: 75.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 43.2
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	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°	6693	6693	6693
5°	6631	6693	6652
10°	6570	6637	6605
15°	6479	6584	6537
20°	6377	6529	6450
25°	6253	6435	6361
30°	6127	6334	6277
35°	5989	6226	6168
40°	5833	6102	6024
45°	5670	5955	5843
50°	5499	5765	5614
55°	5300	5547	5377
60°	5074	5284	5121
65°	4782	4965	4784
70°	4400	4578	4351
75°	3874	4049	3816
80°	3149	3285	3112
85°	2192	2334	2279



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.1	3.6
10°-20°	331.9	10.2
20°-30°	495.0	15.1
30°-40°	586.6	17.9
40°-50°	593.5	18.2
50°-60°	518.4	15.9
60°-70°	378.8	11.6
70°-80°	201.6	6.2
80°-90°	46.6	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°	944.0	28.9
0°-40°	1530.6	46.8
0°-60°	2642.5	80.8
0°-90°	3269.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3269.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1244	1244	1244	1244	1244	
5°	1227	1230	1239	1242	1231	116
15°	1163	1171	1182	1189	1173	328
25°	1053	1066	1084	1088	1071	485
35°	912	926	948	954	939	570
45°	745	758	782	783	768	575
55°	565	576	591	583	573	505
65°	376	383	390	382	376	372
75°	186	191	195	188	184	198
85°	36	36	38	38	37	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1243.6	1243.6	1243.6	1243.6	1243.6
2.5°	1233.8	1237.9	1242.0	1243.8	1233.7
5°	1227.4	1229.7	1238.9	1241.7	1231.3
7.5°	1216.7	1220.2	1229.2	1230.5	1220.4
10°	1202.2	1208.5	1214.4	1220.9	1208.6
12.5°	1183.7	1192.1	1202.2	1203.4	1194.1
15°	1162.8	1170.6	1181.6	1188.8	1173.3
17.5°	1139.5	1147.0	1161.3	1162.6	1153.3
20°	1113.5	1122.8	1139.9	1142.9	1126.2
22.5°	1083.9	1096.5	1110.8	1113.6	1101.3
25°	1053.0	1065.9	1083.6	1087.6	1071.1
27.5°	1020.6	1033.0	1052.8	1055.7	1041.8
30°	985.9	997.5	1019.3	1024.1	1010.0
32.5°	950.6	962.3	986.4	990.4	976.7
35°	911.5	925.7	947.6	954.2	938.8
37.5°	871.6	885.4	910.3	916.3	899.7
40°	830.3	844.0	868.5	873.4	857.5
42.5°	788.0	801.7	827.9	828.7	815.5
45°	744.9	758.1	782.4	783.1	767.7
47.5°	701.1	714.4	736.2	733.7	719.2
50°	656.8	669.5	688.5	683.6	670.5
52.5°	610.9	623.2	641.2	633.2	620.9
55°	564.8	576.2	591.2	582.7	573.1
57.5°	518.3	529.8	541.3	532.6	524.3
60°	471.4	481.5	490.9	482.1	475.8
62.5°	423.7	432.4	440.5	432.1	426.1
65°	375.5	383.1	389.9	382.1	375.7
67.5°	327.5	334.0	340.2	332.2	325.6
70°	279.6	285.2	290.9	282.6	276.5
72.5°	232.3	237.2	242.3	234.3	228.9
75°	186.3	190.6	194.7	187.6	183.5
77.5°	142.4	146.0	148.9	144.3	140.3
80°	101.6	104.3	106.0	104.2	100.4
82.5°	65.3	67.2	68.2	68.0	65.6
85°	35.5	36.1	37.8	38.2	36.9
87.5°	13.7	14.6	15.0	16.2	14.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)