

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: P490046

Luminaire Tested: **CLP-12-2-INS-A19156-LD4-2HI-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: P490046
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-30-120-EDD-90
Description: 1X2 CLP LED LUMINAIRE WITH A19156 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

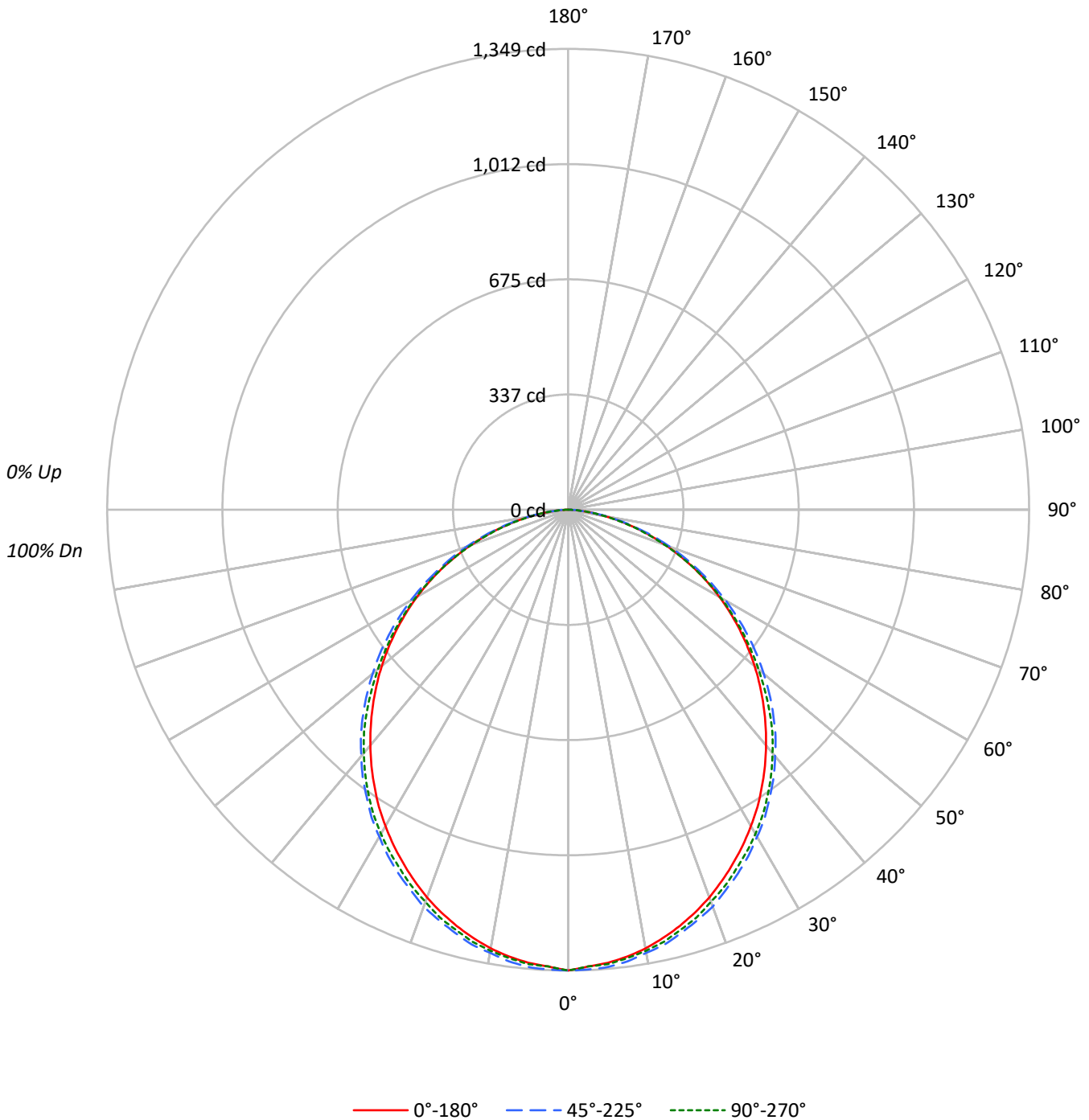
Lumens per Lamp: N/A
Luminaire Lumens: 3546.4 lumens
Efficiency: N/A
Efficacy: 82.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	7260	7260	7260
5°	7193	7260	7216
10°	7127	7199	7165
15°	7028	7141	7092
20°	6918	7082	6997
25°	6783	6980	6900
30°	6646	6871	6808
35°	6496	6753	6691
40°	6327	6619	6535
45°	6150	6460	6338
50°	5965	6253	6090
55°	5748	6017	5833
60°	5504	5732	5555
65°	5187	5386	5191
70°	4773	4965	4719
75°	4203	4392	4138
80°	3415	3564	3375
85°	2377	2532	2476



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.0	3.6
10°-20°	360.0	10.2
20°-30°	536.9	15.1
30°-40°	636.3	17.9
40°-50°	643.8	18.2
50°-60°	562.3	15.9
60°-70°	410.9	11.6
70°-80°	218.6	6.2
80°-90°	50.5	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°	1024.0	28.9
0°-40°	1660.3	46.8
0°-60°	2866.4	80.8
0°-90°	3546.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3546.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1349	1349	1349	1349	1349	
5°	1331	1334	1344	1347	1336	126
15°	1261	1270	1282	1290	1273	356
25°	1142	1156	1175	1180	1162	526
35°	989	1004	1028	1035	1018	618
45°	808	822	849	849	833	623
55°	613	625	641	632	622	548
65°	407	416	423	414	408	403
75°	202	207	211	204	199	215
85°	38	39	41	42	40	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1348.9	1348.9	1348.9	1348.9	1348.9
2.5°	1338.4	1342.7	1347.2	1349.2	1338.2
5°	1331.4	1333.9	1343.9	1347.0	1335.6
7.5°	1319.8	1323.6	1333.3	1334.7	1323.8
10°	1304.1	1310.8	1317.3	1324.3	1311.0
12.5°	1284.0	1293.1	1304.1	1305.4	1295.2
15°	1261.4	1269.8	1281.7	1289.5	1272.8
17.5°	1236.1	1244.2	1259.7	1261.1	1251.0
20°	1207.8	1217.9	1236.5	1239.7	1221.6
22.5°	1175.8	1189.4	1204.9	1208.0	1194.6
25°	1142.2	1156.2	1175.4	1179.7	1161.9
27.5°	1107.1	1120.5	1142.0	1145.1	1130.1
30°	1069.4	1082.0	1105.6	1110.8	1095.5
32.5°	1031.2	1043.8	1069.9	1074.3	1059.4
35°	988.7	1004.2	1027.9	1035.1	1018.4
37.5°	945.4	960.5	987.4	993.9	975.9
40°	900.6	915.5	942.1	947.4	930.1
42.5°	854.8	869.7	898.1	898.9	884.6
45°	808.0	822.3	848.7	849.4	832.7
47.5°	760.5	774.9	798.6	795.9	780.1
50°	712.4	726.2	746.8	741.5	727.3
52.5°	662.7	676.0	695.5	686.8	673.5
55°	612.6	625.0	641.3	632.0	621.6
57.5°	562.2	574.7	587.2	577.8	568.8
60°	511.3	522.3	532.5	523.0	516.1
62.5°	459.6	469.0	477.8	468.7	462.2
65°	407.3	415.6	422.9	414.5	407.6
67.5°	355.3	362.3	369.1	360.4	353.2
70°	303.3	309.3	315.5	306.5	299.9
72.5°	252.0	257.3	262.8	254.1	248.3
75°	202.1	206.7	211.2	203.5	199.0
77.5°	154.5	158.4	161.5	156.6	152.2
80°	110.2	113.1	115.0	113.0	108.9
82.5°	70.8	72.9	73.9	73.8	71.1
85°	38.5	39.2	41.0	41.5	40.1
87.5°	14.9	15.9	16.3	17.6	16.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)