

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: P490018

Luminaire Tested: **CLP-12-2-INS-A19156-LD4-1LO-20-120-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: P490018
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-LD4-1LO-20-120-EDD-90
Description: 1X2 CLP LED LUMINAIRE WITH A19156 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

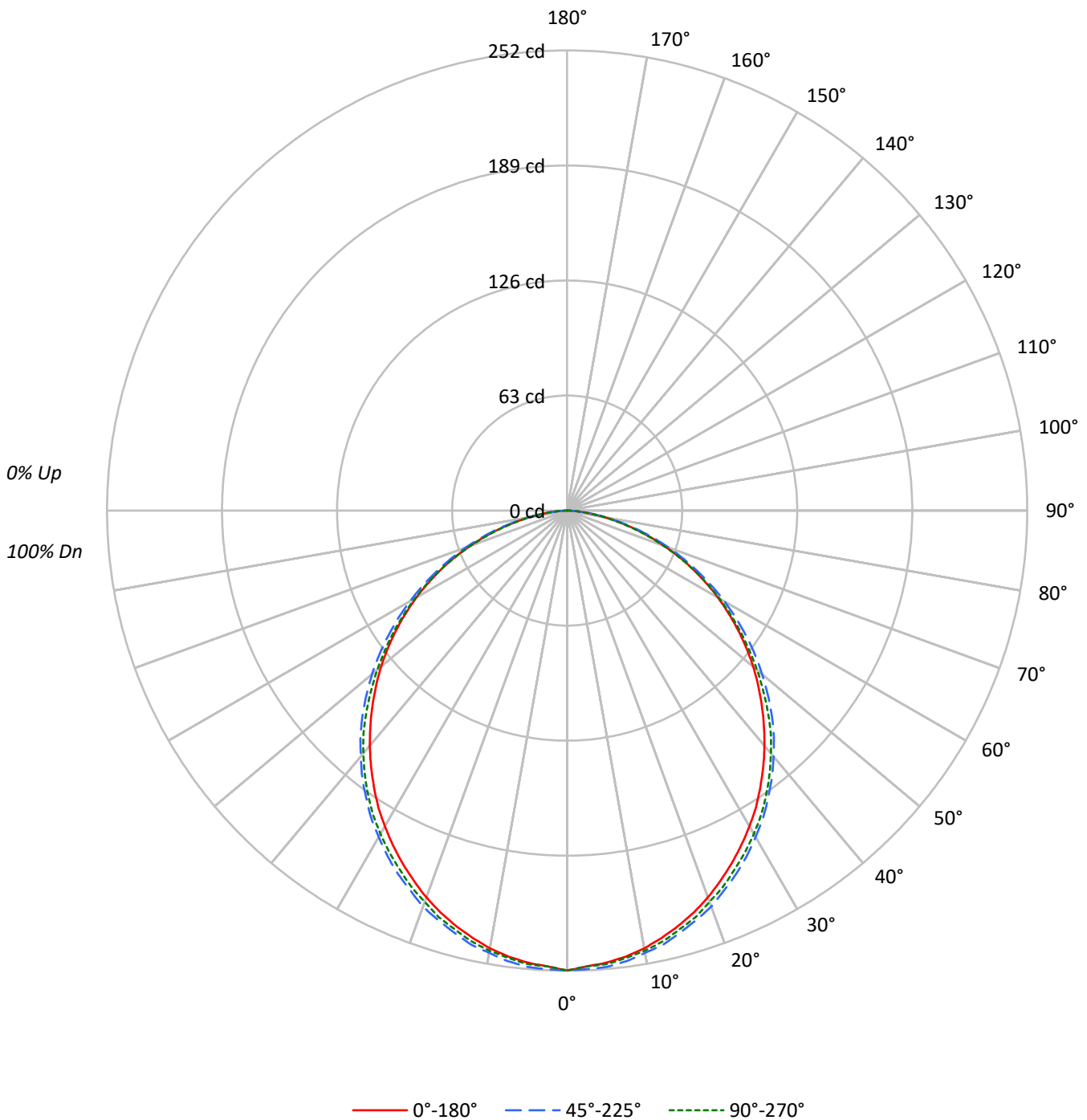
Lumens per Lamp: N/A
Luminaire Lumens: 661.9 lumens
Efficiency: N/A
Efficacy: 56.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
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°	1355	1355	1355
5°	1343	1355	1347
10°	1330	1344	1337
15°	1312	1333	1323
20°	1291	1322	1306
25°	1266	1303	1288
30°	1240	1283	1271
35°	1212	1261	1249
40°	1181	1235	1220
45°	1148	1206	1183
50°	1114	1167	1136
55°	1072	1123	1088
60°	1027	1070	1037
65°	968	1005	969
70°	891	927	881
75°	784	819	771
80°	638	666	629
85°	445	475	463



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.7	3.6
10°-20°	67.2	10.2
20°-30°	100.2	15.1
30°-40°	118.8	17.9
40°-50°	120.2	18.2
50°-60°	104.9	15.9
60°-70°	76.7	11.6
70°-80°	40.8	6.2
80°-90°	9.4	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°	191.1	28.9
0°-40°	309.9	46.8
0°-60°	535.0	80.8
0°-90°	661.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	661.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	252	252	252	252	252	
5°	248	249	251	251	249	24
15°	235	237	239	241	238	66
25°	213	216	219	220	217	98
35°	184	187	192	193	190	115
45°	151	154	158	158	155	116
55°	114	117	120	118	116	102
65°	76	78	79	77	76	75
75°	38	39	39	38	37	40
85°	7	7	8	8	8	9
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	251.8	251.8	251.8	251.8	251.8
2.5°	249.8	250.6	251.4	251.8	249.8
5°	248.5	249.0	250.8	251.4	249.3
7.5°	246.3	247.0	248.9	249.1	247.1
10°	243.4	244.7	245.9	247.2	244.7
12.5°	239.6	241.3	243.4	243.6	241.7
15°	235.4	237.0	239.2	240.7	237.5
17.5°	230.7	232.2	235.1	235.4	233.5
20°	225.4	227.3	230.8	231.4	228.0
22.5°	219.4	222.0	224.9	225.5	223.0
25°	213.2	215.8	219.4	220.2	216.9
27.5°	206.6	209.1	213.2	213.7	210.9
30°	199.6	202.0	206.4	207.3	204.5
32.5°	192.5	194.8	199.7	200.5	197.7
35°	184.5	187.4	191.9	193.2	190.1
37.5°	176.5	179.3	184.3	185.5	182.1
40°	168.1	170.9	175.8	176.8	173.6
42.5°	159.5	162.3	167.6	167.8	165.1
45°	150.8	153.5	158.4	158.5	155.4
47.5°	141.9	144.6	149.0	148.5	145.6
50°	133.0	135.5	139.4	138.4	135.7
52.5°	123.7	126.2	129.8	128.2	125.7
55°	114.3	116.6	119.7	118.0	116.0
57.5°	104.9	107.3	109.6	107.8	106.2
60°	95.4	97.5	99.4	97.6	96.3
62.5°	85.8	87.5	89.2	87.5	86.3
65°	76.0	77.6	78.9	77.4	76.1
67.5°	66.3	67.6	68.9	67.3	65.9
70°	56.6	57.7	58.9	57.2	56.0
72.5°	47.0	48.0	49.1	47.4	46.3
75°	37.7	38.6	39.4	38.0	37.1
77.5°	28.8	29.6	30.1	29.2	28.4
80°	20.6	21.1	21.5	21.1	20.3
82.5°	13.2	13.6	13.8	13.8	13.3
85°	7.2	7.3	7.7	7.7	7.5
87.5°	2.8	3.0	3.0	3.3	3.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)