

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: P490270

Luminaire Tested: **CLP-12-4-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: P490270
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-12-4-INS-A19156-LD4-1LO-20-120-EDD-90
Description: 1X4 CLP LED LUMINAIRE WITH A19156 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

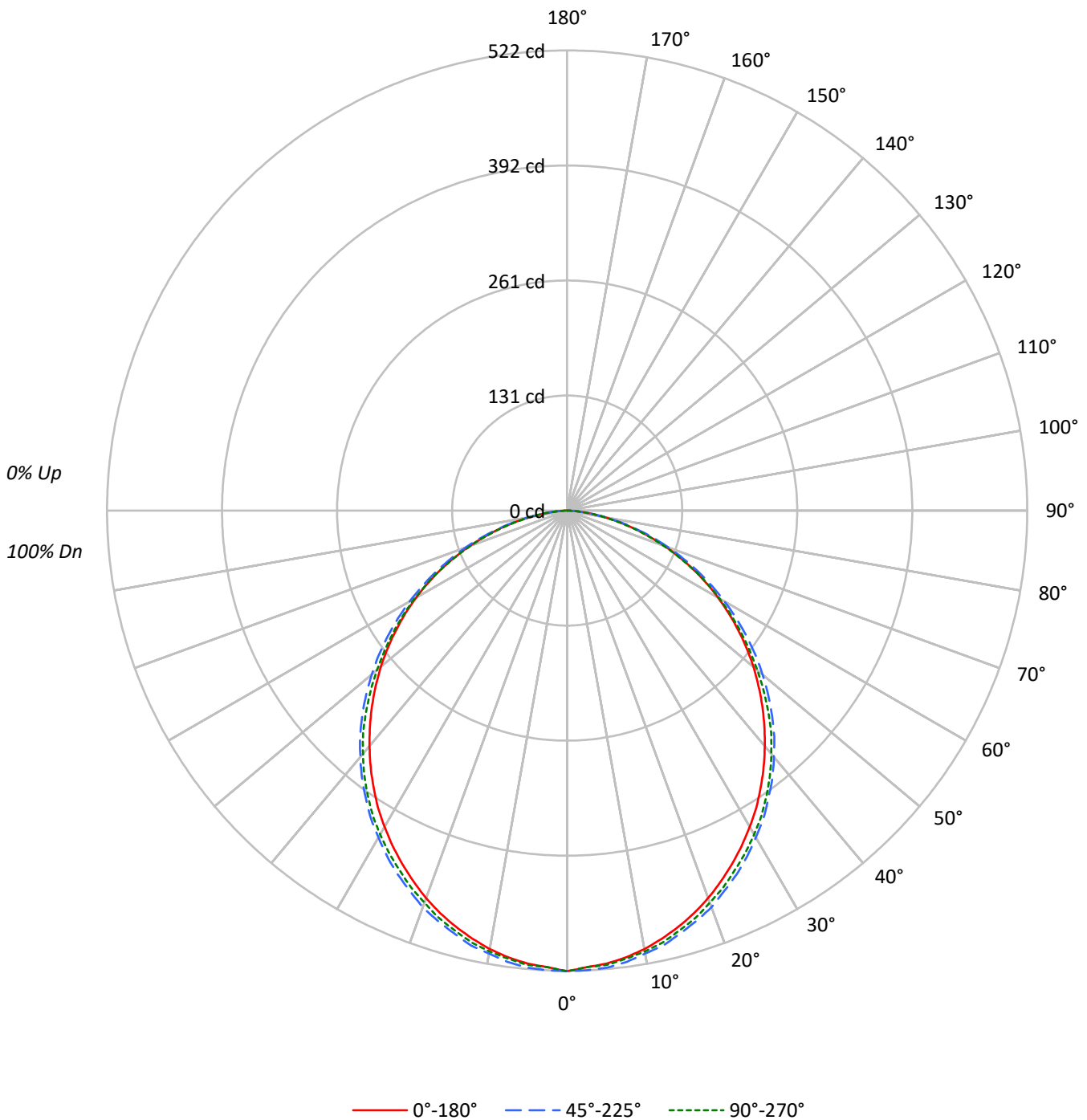
Lumens per Lamp: N/A
Luminaire Lumens: 1373.6 lumens
Efficiency: N/A
Efficacy: 58.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
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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CATALOG NUMBER: CLP-12-4-INS-A19156-LD4-1LO-20-120-EDD-90

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°	1406	1406	1406
5°	1393	1406	1397
10°	1380	1394	1388
15°	1361	1383	1373
20°	1340	1371	1355
25°	1314	1352	1336
30°	1287	1331	1318
35°	1258	1308	1296
40°	1225	1282	1266
45°	1191	1251	1227
50°	1155	1211	1179
55°	1113	1165	1130
60°	1066	1110	1076
65°	1005	1043	1005
70°	924	961	914
75°	814	850	802
80°	662	690	654
85°	460	491	479



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.2	3.6
10°-20°	139.4	10.2
20°-30°	208.0	15.1
30°-40°	246.4	17.9
40°-50°	249.4	18.2
50°-60°	217.8	15.9
60°-70°	159.1	11.6
70°-80°	84.7	6.2
80°-90°	19.6	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°	396.6	28.9
0°-40°	643.0	46.8
0°-60°	1110.2	80.8
0°-90°	1373.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1373.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	522	522	522	522	522	
5°	516	517	520	522	517	49
15°	489	492	496	499	493	138
25°	442	448	455	457	450	204
35°	383	389	398	401	394	239
45°	313	318	329	329	322	241
55°	237	242	248	245	241	212
65°	158	161	164	160	158	156
75°	78	80	82	79	77	83
85°	15	15	16	16	16	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	522.5	522.5	522.5	522.5	522.5
2.5°	518.4	520.1	521.8	522.6	518.3
5°	515.7	516.6	520.5	521.7	517.3
7.5°	511.2	512.7	516.4	517.0	512.7
10°	505.1	507.7	510.2	512.9	507.8
12.5°	497.3	500.9	505.1	505.6	501.7
15°	488.6	491.8	496.4	499.4	493.0
17.5°	478.8	481.9	487.9	488.4	484.5
20°	467.8	471.7	478.9	480.2	473.2
22.5°	455.4	460.7	466.7	467.9	462.7
25°	442.4	447.8	455.2	456.9	450.0
27.5°	428.8	434.0	442.3	443.5	437.7
30°	414.2	419.1	428.2	430.3	424.3
32.5°	399.4	404.3	414.4	416.1	410.3
35°	383.0	388.9	398.1	400.9	394.4
37.5°	366.2	372.0	382.5	385.0	378.0
40°	348.8	354.6	364.9	366.9	360.3
42.5°	331.1	336.8	347.8	348.2	342.6
45°	312.9	318.5	328.7	329.0	322.5
47.5°	294.5	300.2	309.3	308.3	302.2
50°	275.9	281.3	289.3	287.2	281.7
52.5°	256.7	261.8	269.4	266.0	260.9
55°	237.3	242.1	248.4	244.8	240.8
57.5°	217.7	222.6	227.4	223.8	220.3
60°	198.0	202.3	206.3	202.6	199.9
62.5°	178.0	181.7	185.1	181.5	179.0
65°	157.8	161.0	163.8	160.5	157.9
67.5°	137.6	140.3	142.9	139.6	136.8
70°	117.5	119.8	122.2	118.7	116.2
72.5°	97.6	99.7	101.8	98.4	96.2
75°	78.3	80.1	81.8	78.8	77.1
77.5°	59.8	61.3	62.5	60.6	59.0
80°	42.7	43.8	44.5	43.8	42.2
82.5°	27.4	28.3	28.6	28.6	27.5
85°	14.9	15.2	15.9	16.1	15.5
87.5°	5.8	6.2	6.3	6.8	6.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)