

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: P490020

Luminaire Tested: **CLP-12-2-INS-A19156-LD4-1LO-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: P490020
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-27-120-EDD-90
Description: 1X2 CLP LED LUMINAIRE WITH A19156 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

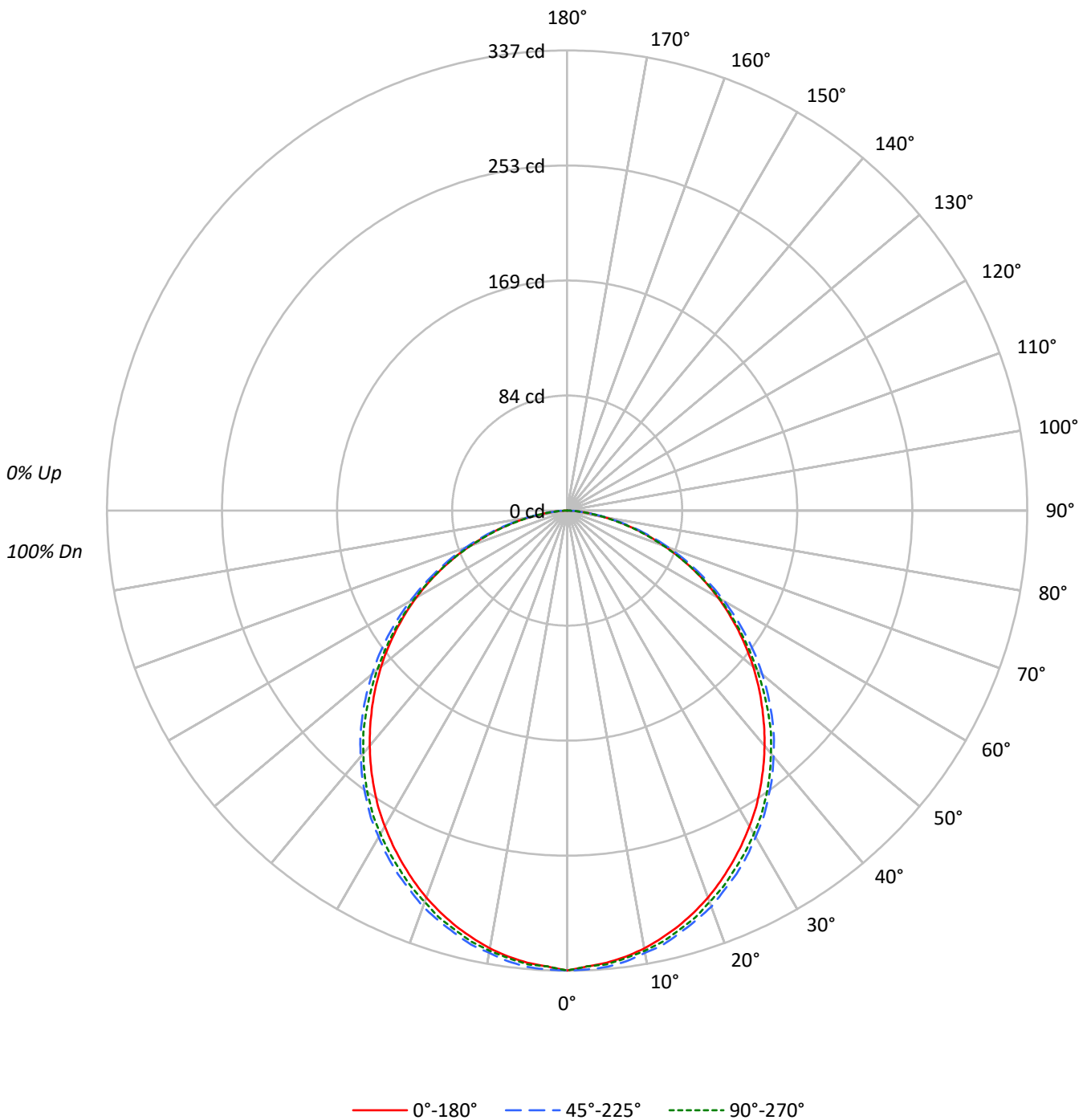
Lumens per Lamp: N/A
Luminaire Lumens: 885.5 lumens
Efficiency: N/A
Efficacy: 75.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	1813	1813	1813
5°	1796	1813	1802
10°	1779	1797	1789
15°	1755	1783	1771
20°	1727	1768	1747
25°	1694	1743	1723
30°	1659	1716	1700
35°	1622	1687	1671
40°	1580	1652	1631
45°	1535	1613	1582
50°	1490	1562	1521
55°	1436	1502	1456
60°	1375	1432	1387
65°	1295	1345	1296
70°	1191	1240	1179
75°	1050	1096	1033
80°	852	890	843
85°	593	630	618



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.7	3.6
10°-20°	89.9	10.2
20°-30°	134.1	15.1
30°-40°	158.9	17.9
40°-50°	160.7	18.2
50°-60°	140.4	15.9
60°-70°	102.6	11.6
70°-80°	54.6	6.2
80°-90°	12.6	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°	255.7	28.9
0°-40°	414.6	46.8
0°-60°	715.7	80.8
0°-90°	885.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	885.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	337	337	337	337	337	
5°	332	333	336	336	334	32
15°	315	317	320	322	318	89
25°	285	289	294	295	290	131
35°	247	251	257	258	254	154
45°	202	205	212	212	208	156
55°	153	156	160	158	155	137
65°	102	104	106	104	102	101
75°	50	52	53	51	50	54
85°	10	10	10	10	10	12
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	336.8	336.8	336.8	336.8	336.8
2.5°	334.2	335.3	336.4	336.9	334.1
5°	332.4	333.1	335.5	336.3	333.5
7.5°	329.5	330.5	332.9	333.3	330.5
10°	325.6	327.3	328.9	330.7	327.3
12.5°	320.6	322.9	325.6	325.9	323.4
15°	315.0	317.1	320.0	322.0	317.8
17.5°	308.6	310.7	314.5	314.9	312.4
20°	301.6	304.1	308.7	309.5	305.0
22.5°	293.6	297.0	300.8	301.6	298.3
25°	285.2	288.7	293.5	294.6	290.1
27.5°	276.4	279.8	285.2	285.9	282.2
30°	267.0	270.2	276.1	277.4	273.5
32.5°	257.5	260.6	267.2	268.2	264.5
35°	246.9	250.7	256.7	258.5	254.3
37.5°	236.1	239.8	246.6	248.2	243.7
40°	224.9	228.6	235.2	236.6	232.2
42.5°	213.4	217.1	224.2	224.4	220.9
45°	201.7	205.3	211.9	212.1	207.9
47.5°	189.9	193.5	199.4	198.7	194.8
50°	177.9	181.3	186.5	185.1	181.6
52.5°	165.5	168.8	173.7	171.5	168.2
55°	153.0	156.1	160.1	157.8	155.2
57.5°	140.4	143.5	146.6	144.3	142.0
60°	127.7	130.4	133.0	130.6	128.9
62.5°	114.8	117.1	119.3	117.0	115.4
65°	101.7	103.8	105.6	103.5	101.8
67.5°	88.7	90.5	92.2	90.0	88.2
70°	75.7	77.2	78.8	76.5	74.9
72.5°	62.9	64.3	65.6	63.4	62.0
75°	50.5	51.6	52.7	50.8	49.7
77.5°	38.6	39.5	40.3	39.1	38.0
80°	27.5	28.2	28.7	28.2	27.2
82.5°	17.7	18.2	18.5	18.4	17.8
85°	9.6	9.8	10.2	10.4	10.0
87.5°	3.7	4.0	4.1	4.4	4.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)