

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: P490066

Luminaire Tested: **CLP-12-2-INS-A19156-LD4-2STD-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: P490066
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-LD4-2STD-20-120-EDD-90
Description: 1X2 CLP LED LUMINAIRE WITH A19156 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

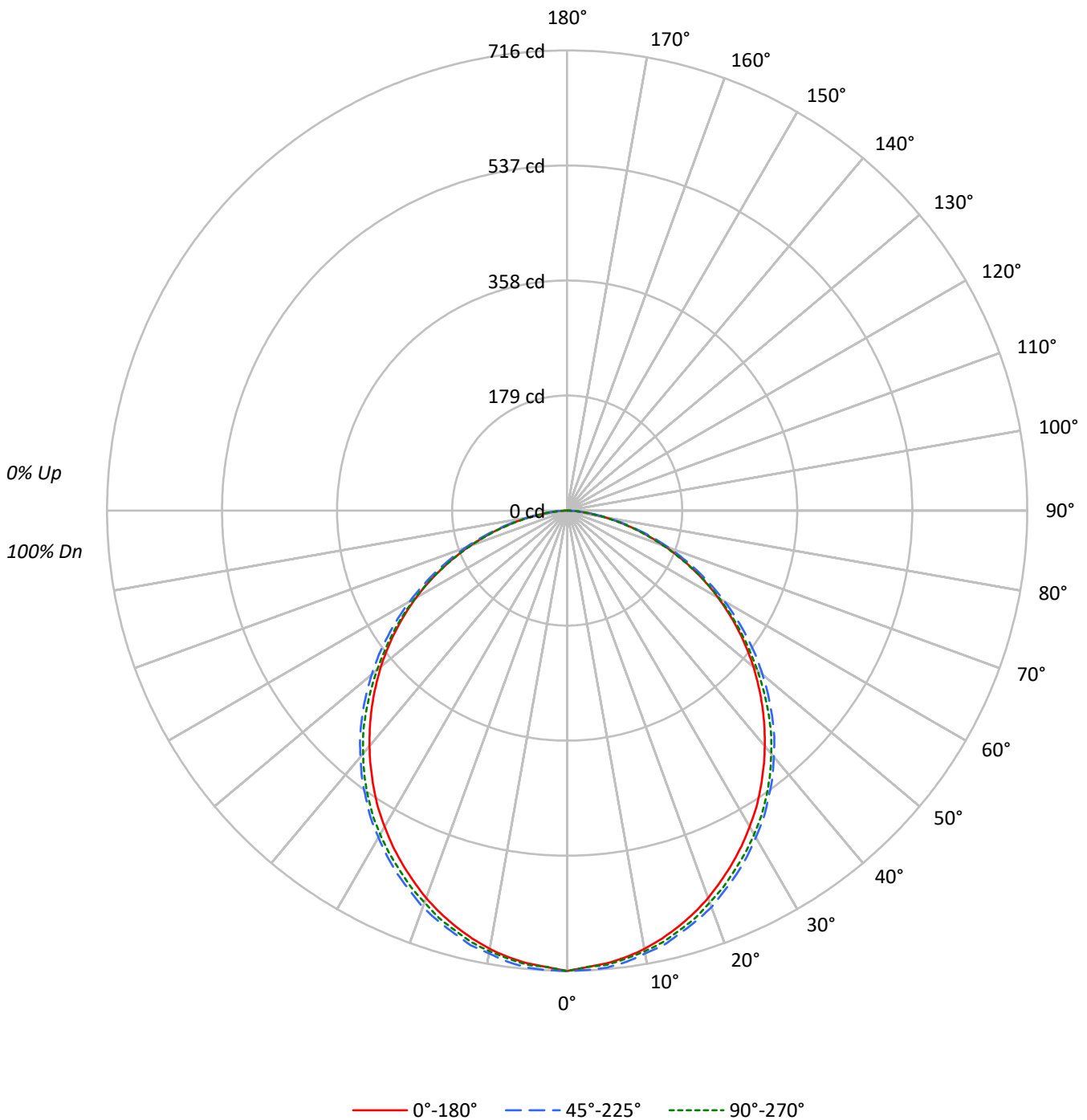
Lumens per Lamp: N/A
Luminaire Lumens: 1883.7 lumens
Efficiency: N/A
Efficacy: 56.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
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°	3856	3856	3856
5°	3821	3856	3833
10°	3786	3824	3805
15°	3733	3793	3767
20°	3674	3762	3716
25°	3603	3707	3665
30°	3530	3650	3616
35°	3451	3587	3554
40°	3361	3516	3471
45°	3267	3431	3366
50°	3168	3322	3234
55°	3053	3196	3098
60°	2923	3044	2950
65°	2755	2860	2757
70°	2535	2637	2507
75°	2231	2333	2198
80°	1813	1894	1795
85°	1266	1346	1315



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.5	3.6
10°-20°	191.2	10.2
20°-30°	285.2	15.1
30°-40°	338.0	17.9
40°-50°	342.0	18.2
50°-60°	298.7	15.9
60°-70°	218.2	11.6
70°-80°	116.1	6.2
80°-90°	26.8	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°	543.9	28.9
0°-40°	881.9	46.8
0°-60°	1522.5	80.8
0°-90°	1883.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1883.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	716	716	716	716	716	
5°	707	708	714	715	709	67
15°	670	674	681	685	676	189
25°	607	614	624	627	617	279
35°	525	533	546	550	541	328
45°	429	437	451	451	442	331
55°	325	332	341	336	330	291
65°	216	221	225	220	216	214
75°	107	110	112	108	106	114
85°	20	21	22	22	21	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	716.5	716.5	716.5	716.5	716.5
2.5°	710.9	713.2	715.6	716.6	710.8
5°	707.2	708.5	713.8	715.4	709.4
7.5°	701.0	703.1	708.2	709.0	703.1
10°	692.7	696.3	699.7	703.4	696.3
12.5°	682.0	686.9	692.7	693.4	688.0
15°	670.0	674.5	680.8	684.9	676.0
17.5°	656.5	660.9	669.1	669.8	664.5
20°	641.5	646.9	656.8	658.5	648.9
22.5°	624.5	631.8	640.0	641.6	634.5
25°	606.7	614.1	624.3	626.6	617.1
27.5°	588.0	595.2	606.6	608.2	600.3
30°	568.0	574.7	587.3	590.0	581.9
32.5°	547.7	554.4	568.3	570.6	562.7
35°	525.2	533.4	546.0	549.8	540.9
37.5°	502.2	510.2	524.5	527.9	518.4
40°	478.4	486.3	500.4	503.2	494.0
42.5°	454.0	461.9	477.0	477.5	469.8
45°	429.2	436.8	450.8	451.2	442.3
47.5°	403.9	411.6	424.2	422.7	414.4
50°	378.4	385.7	396.7	393.9	386.3
52.5°	352.0	359.1	369.4	364.8	357.7
55°	325.4	332.0	340.6	335.7	330.2
57.5°	298.6	305.2	311.9	306.9	302.1
60°	271.6	277.4	282.8	277.8	274.1
62.5°	244.1	249.1	253.8	249.0	245.5
65°	216.3	220.7	224.6	220.1	216.5
67.5°	188.7	192.4	196.0	191.4	187.6
70°	161.1	164.3	167.6	162.8	159.3
72.5°	133.8	136.7	139.6	135.0	131.9
75°	107.3	109.8	112.2	108.1	105.7
77.5°	82.0	84.1	85.8	83.2	80.8
80°	58.5	60.1	61.1	60.0	57.9
82.5°	37.6	38.7	39.3	39.2	37.8
85°	20.5	20.8	21.8	22.0	21.3
87.5°	7.9	8.4	8.7	9.3	8.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)