

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: P490065

Luminaire Tested: **CLP-12-2-INS-A19156-LD4-2LO-50-120-EDD**

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: P490065
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-LD4-2LO-50-120-EDD
Description: 1X2 CLP LED LUMINAIRE WITH A19156 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

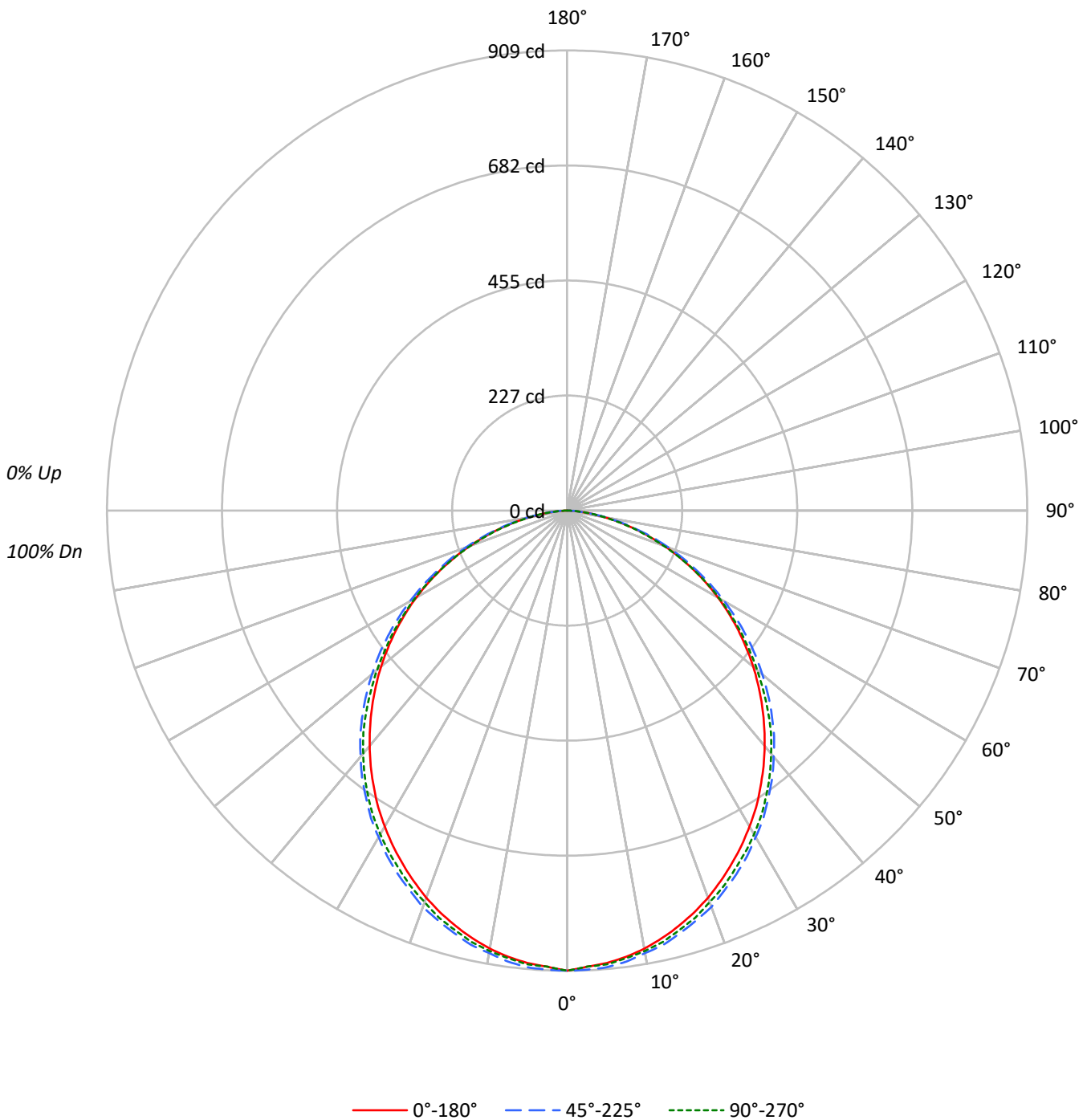
Lumens per Lamp: N/A
Luminaire Lumens: 2389.6 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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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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°	4892	4892	4892
5°	4847	4892	4862
10°	4802	4851	4828
15°	4735	4812	4778
20°	4661	4772	4714
25°	4570	4703	4649
30°	4478	4630	4588
35°	4377	4550	4508
40°	4263	4460	4403
45°	4144	4353	4271
50°	4019	4213	4104
55°	3873	4054	3931
60°	3708	3862	3743
65°	3494	3628	3497
70°	3216	3345	3180
75°	2832	2959	2789
80°	2300	2402	2275
85°	1599	1711	1667



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.6	3.6
10°-20°	242.6	10.2
20°-30°	361.8	15.1
30°-40°	428.7	17.9
40°-50°	433.8	18.2
50°-60°	378.9	15.9
60°-70°	276.9	11.6
70°-80°	147.3	6.2
80°-90°	34.0	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°	690.0	28.9
0°-40°	1118.7	46.8
0°-60°	1931.4	80.8
0°-90°	2389.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2389.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	909	909	909	909	909	
5°	897	899	906	908	900	85
15°	850	856	864	869	858	240
25°	770	779	792	795	783	355
35°	666	677	693	698	686	417
45°	544	554	572	572	561	420
55°	413	421	432	426	419	369
65°	274	280	285	279	275	272
75°	136	139	142	137	134	145
85°	26	26	28	28	27	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	908.9	908.9	908.9	908.9	908.9
2.5°	901.8	904.8	907.8	909.1	901.7
5°	897.1	898.8	905.5	907.6	899.9
7.5°	889.3	891.9	898.4	899.4	892.0
10°	878.7	883.3	887.6	892.3	883.4
12.5°	865.2	871.3	878.7	879.6	872.7
15°	849.9	855.6	863.7	868.9	857.6
17.5°	832.9	838.4	848.8	849.7	842.9
20°	813.8	820.7	833.2	835.3	823.1
22.5°	792.2	801.4	811.9	813.9	804.9
25°	769.6	779.1	792.0	794.9	782.9
27.5°	745.9	755.0	769.5	771.6	761.5
30°	720.6	729.1	745.0	748.5	738.2
32.5°	694.8	703.3	720.9	723.9	713.8
35°	666.2	676.6	692.6	697.5	686.2
37.5°	637.0	647.2	665.4	669.7	657.6
40°	606.8	616.9	634.8	638.4	626.7
42.5°	576.0	586.0	605.1	605.7	596.0
45°	544.4	554.1	571.9	572.4	561.1
47.5°	512.4	522.2	538.1	536.3	525.7
50°	480.0	489.3	503.2	499.6	490.1
52.5°	446.5	455.5	468.7	462.8	453.8
55°	412.8	421.1	432.1	425.9	418.9
57.5°	378.8	387.2	395.7	389.3	383.2
60°	344.5	351.9	358.8	352.4	347.7
62.5°	309.7	316.0	322.0	315.8	311.5
65°	274.4	280.0	284.9	279.3	274.6
67.5°	239.4	244.1	248.7	242.8	238.0
70°	204.4	208.4	212.6	206.5	202.1
72.5°	169.8	173.4	177.1	171.2	167.3
75°	136.2	139.3	142.3	137.1	134.1
77.5°	104.1	106.7	108.8	105.5	102.6
80°	74.2	76.2	77.5	76.1	73.4
82.5°	47.7	49.1	49.8	49.7	47.9
85°	25.9	26.4	27.7	27.9	27.0
87.5°	10.0	10.7	11.0	11.8	10.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)