

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: P490072

Luminaire Tested: **CLP-12-2-INS-A19156-LD4-2STD-35-120-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: P490072
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-35-120-EDD-90
Description: 1X2 CLP LED LUMINAIRE WITH A19156 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

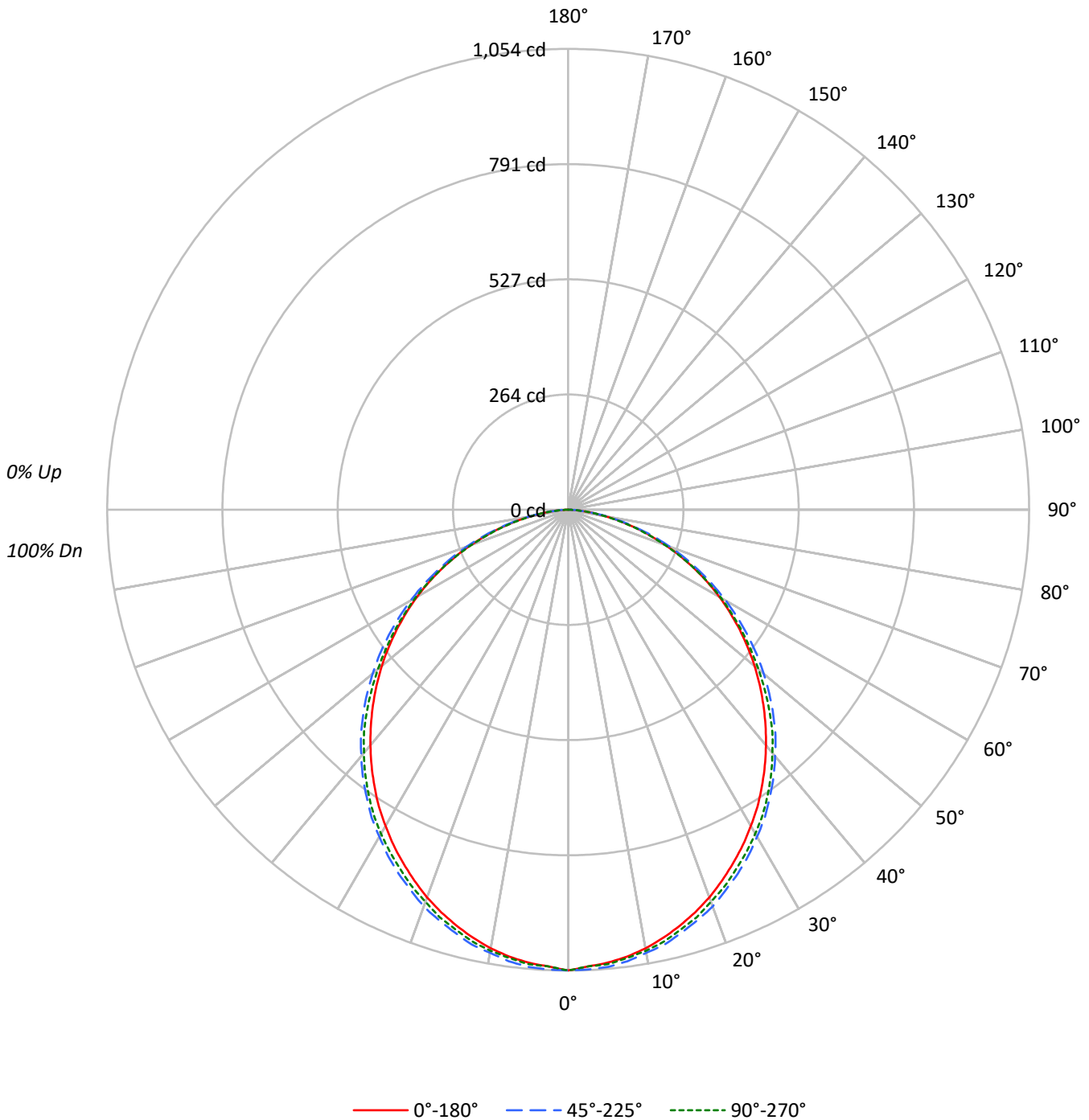
Lumens per Lamp: N/A
Luminaire Lumens: 2770.2 lumens
Efficiency: N/A
Efficacy: 83.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
Input Voltage (V): NR
Input Current (A_{in}): 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°	5671	5671	5671
5°	5619	5671	5636
10°	5567	5623	5596
15°	5490	5578	5539
20°	5404	5532	5465
25°	5298	5452	5390
30°	5191	5368	5318
35°	5074	5275	5227
40°	4943	5170	5104
45°	4803	5046	4951
50°	4659	4885	4757
55°	4490	4700	4556
60°	4299	4478	4339
65°	4051	4206	4055
70°	3728	3879	3687
75°	3283	3431	3234
80°	2669	2783	2638
85°	1859	1982	1933



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.2	3.6
10°-20°	281.2	10.2
20°-30°	419.4	15.1
30°-40°	497.0	17.9
40°-50°	502.9	18.2
50°-60°	439.2	15.9
60°-70°	320.9	11.6
70°-80°	170.8	6.2
80°-90°	39.5	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°	799.9	28.9
0°-40°	1296.9	46.8
0°-60°	2239.0	80.8
0°-90°	2770.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2770.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1054	1054	1054	1054	1054	
5°	1040	1042	1050	1052	1043	99
15°	985	992	1001	1007	994	278
25°	892	903	918	922	908	411
35°	772	784	803	808	796	483
45°	631	642	663	664	650	487
55°	478	488	501	494	486	428
65°	318	325	330	324	318	315
75°	158	162	165	159	156	168
85°	30	31	32	32	31	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1053.7	1053.7	1053.7	1053.7	1053.7
2.5°	1045.5	1048.9	1052.4	1053.9	1045.3
5°	1040.0	1041.9	1049.7	1052.1	1043.3
7.5°	1031.0	1033.9	1041.5	1042.6	1034.0
10°	1018.7	1023.9	1029.0	1034.5	1024.0
12.5°	1003.0	1010.1	1018.7	1019.7	1011.7
15°	985.3	991.9	1001.2	1007.2	994.2
17.5°	965.5	971.9	984.0	985.1	977.2
20°	943.5	951.4	965.9	968.4	954.2
22.5°	918.4	929.1	941.2	943.6	933.1
25°	892.2	903.2	918.1	921.5	907.6
27.5°	864.8	875.3	892.1	894.5	882.8
30°	835.3	845.2	863.7	867.7	855.7
32.5°	805.5	815.3	835.8	839.2	827.5
35°	772.3	784.4	802.9	808.5	795.5
37.5°	738.5	750.2	771.3	776.4	762.3
40°	703.5	715.1	735.9	740.0	726.5
42.5°	667.7	679.3	701.5	702.2	691.0
45°	631.1	642.3	663.0	663.5	650.5
47.5°	594.0	605.3	623.8	621.7	609.4
50°	556.5	567.2	583.4	579.2	568.1
52.5°	517.6	528.1	543.3	536.5	526.1
55°	478.5	488.2	500.9	493.7	485.6
57.5°	439.1	448.9	458.7	451.3	444.3
60°	399.4	407.9	416.0	408.5	403.1
62.5°	359.0	366.3	373.3	366.1	361.1
65°	318.1	324.6	330.3	323.7	318.4
67.5°	277.5	283.0	288.3	281.5	275.9
70°	236.9	241.6	246.5	239.4	234.3
72.5°	196.8	201.0	205.3	198.5	194.0
75°	157.9	161.5	165.0	159.0	155.5
77.5°	120.7	123.7	126.1	122.3	118.9
80°	86.1	88.4	89.8	88.3	85.1
82.5°	55.3	57.0	57.7	57.6	55.5
85°	30.1	30.6	32.1	32.4	31.3
87.5°	11.6	12.4	12.7	13.7	12.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)