

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: P490073

Luminaire Tested: **CLP-12-2-INS-A19156-LD4-2STD-35-120-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: P490073
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
Description: 1X2 CLP LED LUMINAIRE WITH A19156 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

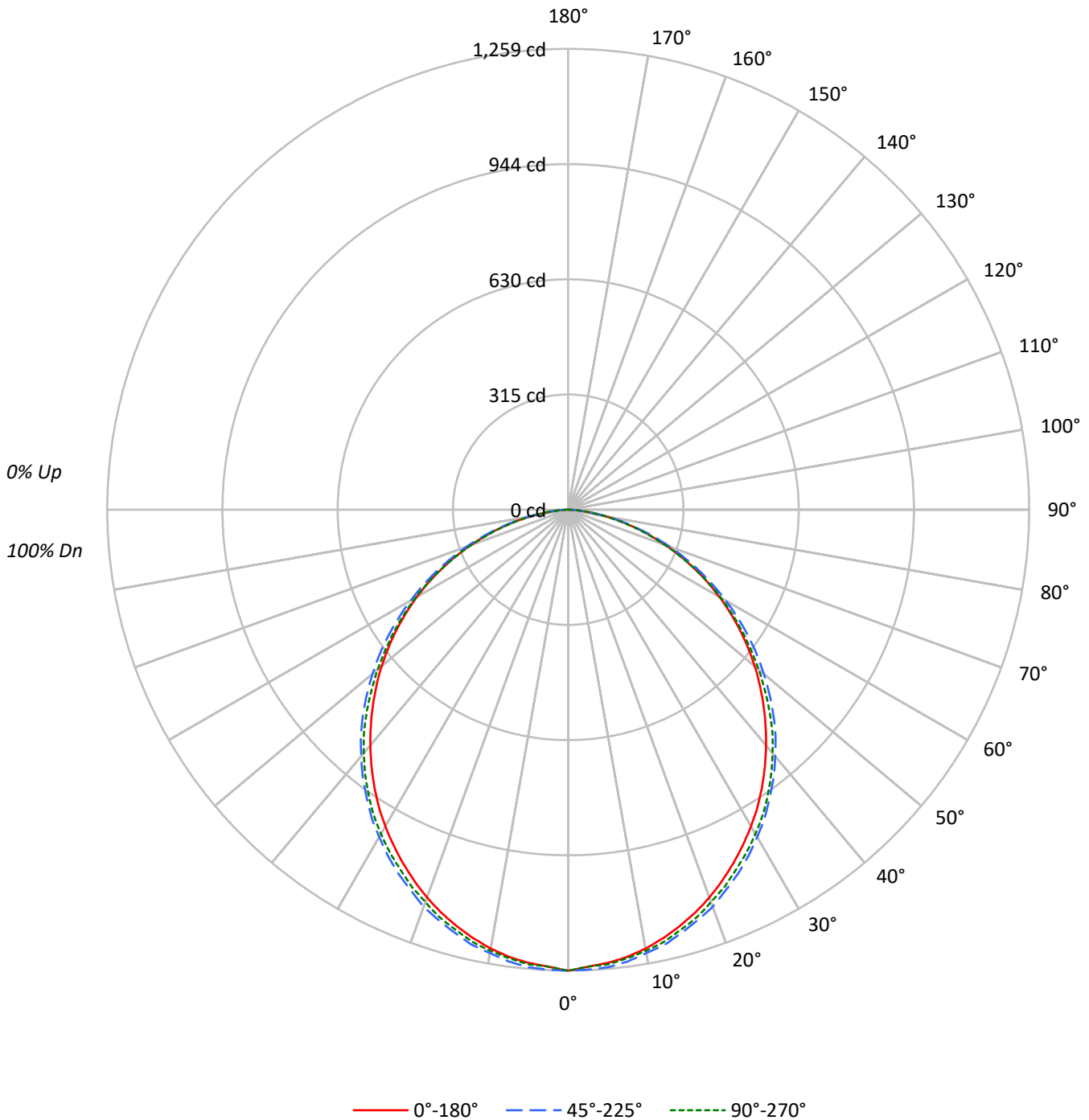
Lumens per Lamp: N/A
Luminaire Lumens: 3310.7 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	6777	6777	6777
5°	6715	6777	6736
10°	6653	6721	6688
15°	6561	6667	6620
20°	6458	6611	6531
25°	6332	6516	6441
30°	6204	6415	6356
35°	6064	6305	6246
40°	5906	6178	6100
45°	5741	6030	5917
50°	5569	5838	5685
55°	5366	5618	5445
60°	5138	5351	5186
65°	4842	5028	4846
70°	4455	4634	4406
75°	3924	4101	3864
80°	3189	3326	3152
85°	2217	2365	2309



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.6	3.6
10°-20°	336.1	10.2
20°-30°	501.2	15.1
30°-40°	594.0	17.9
40°-50°	601.0	18.2
50°-60°	524.9	15.9
60°-70°	383.6	11.6
70°-80°	204.1	6.2
80°-90°	47.2	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°	955.9	28.9
0°-40°	1549.9	46.8
0°-60°	2675.9	80.8
0°-90°	3310.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3310.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1259	1259	1259	1259	1259	
5°	1243	1245	1254	1257	1247	118
15°	1178	1185	1197	1204	1188	332
25°	1066	1079	1097	1101	1085	491
35°	923	937	960	966	951	577
45°	754	768	792	793	777	582
55°	572	584	599	590	580	511
65°	380	388	395	387	380	376
75°	189	193	197	190	186	201
85°	36	37	38	39	37	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1259.3	1259.3	1259.3	1259.3	1259.3
2.5°	1249.4	1253.5	1257.7	1259.5	1249.3
5°	1242.9	1245.2	1254.5	1257.4	1246.8
7.5°	1232.1	1235.7	1244.7	1246.0	1235.8
10°	1217.4	1223.7	1229.8	1236.3	1223.8
12.5°	1198.7	1207.2	1217.4	1218.6	1209.2
15°	1177.5	1185.4	1196.6	1203.8	1188.2
17.5°	1153.9	1161.5	1176.0	1177.3	1167.8
20°	1127.5	1137.0	1154.3	1157.3	1140.4
22.5°	1097.6	1110.4	1124.8	1127.7	1115.2
25°	1066.3	1079.4	1097.2	1101.3	1084.6
27.5°	1033.5	1046.1	1066.1	1069.0	1055.0
30°	998.3	1010.1	1032.2	1037.0	1022.7
32.5°	962.6	974.4	998.8	1002.9	989.0
35°	923.0	937.4	959.6	966.3	950.7
37.5°	882.6	896.6	921.8	927.9	911.1
40°	840.7	854.6	879.4	884.4	868.3
42.5°	798.0	811.9	838.4	839.2	825.8
45°	754.3	767.7	792.3	793.0	777.4
47.5°	709.9	723.4	745.5	743.0	728.3
50°	665.1	677.9	697.2	692.2	679.0
52.5°	618.6	631.1	649.3	641.2	628.7
55°	571.9	583.5	598.7	590.0	580.3
57.5°	524.8	536.5	548.2	539.4	531.0
60°	477.3	487.5	497.1	488.2	481.8
62.5°	429.0	437.8	446.1	437.6	431.5
65°	380.2	388.0	394.8	386.9	380.5
67.5°	331.7	338.2	344.5	336.4	329.7
70°	283.1	288.8	294.5	286.2	280.0
72.5°	235.2	240.2	245.3	237.2	231.8
75°	188.7	193.0	197.2	190.0	185.8
77.5°	144.2	147.9	150.8	146.2	142.1
80°	102.9	105.6	107.3	105.5	101.7
82.5°	66.1	68.1	69.0	68.9	66.4
85°	35.9	36.6	38.3	38.7	37.4
87.5°	13.9	14.8	15.2	16.4	15.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)