

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: P490287

Luminaire Tested: **CLP-12-4-INS-A19156-LD4-1STD-30-120-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: P490287  
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-12-4-INS-A19156-LD4-1STD-30-120-EDD  
Description: 1X4 CLP LED LUMINAIRE WITH A19156 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

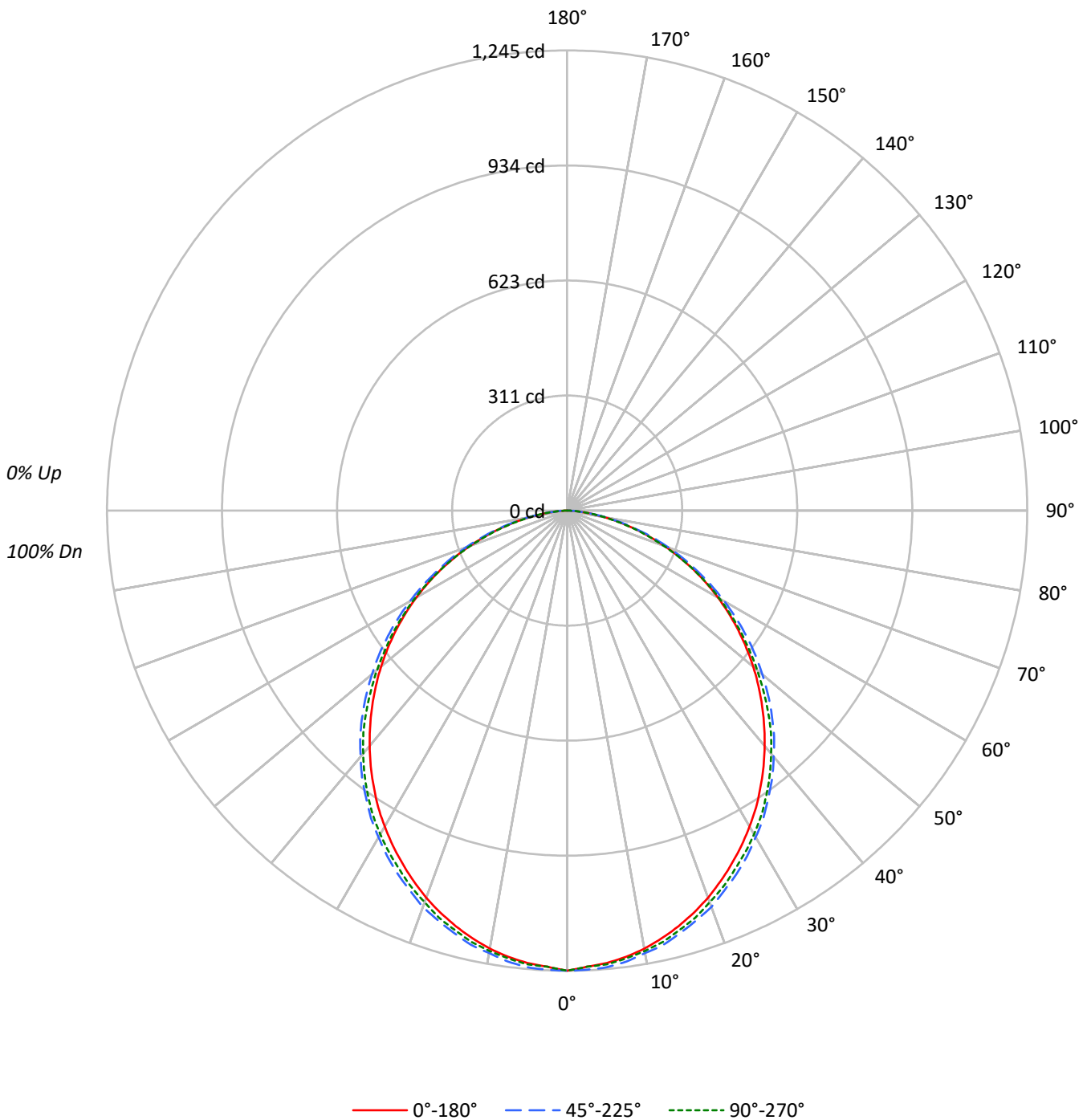
Lumens per Lamp: N/A  
Luminaire Lumens: 3273.1 lumens  
Efficiency: N/A  
Efficacy: 98.3 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 33.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°	3350	3350	3350
5°	3319	3350	3330
10°	3289	3322	3306
15°	3243	3296	3273
20°	3192	3268	3229
25°	3130	3221	3184
30°	3067	3171	3142
35°	2998	3117	3088
40°	2920	3054	3015
45°	2838	2981	2925
50°	2753	2886	2810
55°	2653	2777	2692
60°	2540	2645	2563
65°	2394	2485	2395
70°	2202	2291	2178
75°	1939	2027	1910
80°	1576	1644	1557
85°	1096	1170	1142



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	117.3	3.6
10°-20°	332.3	10.2
20°-30°	495.6	15.1
30°-40°	587.2	17.9
40°-50°	594.2	18.2
50°-60°	518.9	15.9
60°-70°	379.2	11.6
70°-80°	201.8	6.2
80°-90°	46.6	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°	945.1	28.9
0°-40°	1532.3	46.8
0°-60°	2645.5	80.8
0°-90°	3273.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3273.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1245	1245	1245	1245	1245	
5°	1229	1231	1240	1243	1233	117
15°	1164	1172	1183	1190	1175	328
25°	1054	1067	1085	1089	1072	486
35°	912	927	949	955	940	571
45°	746	759	783	784	768	575
55°	565	577	592	583	574	505
65°	376	384	390	382	376	372
75°	186	191	195	188	184	198
85°	36	36	38	38	37	45
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1245.0	1245.0	1245.0	1245.0	1245.0
2.5°	1235.2	1239.3	1243.4	1245.2	1235.1
5°	1228.8	1231.1	1240.3	1243.2	1232.6
7.5°	1218.1	1221.6	1230.6	1231.9	1221.8
10°	1203.6	1209.8	1215.8	1222.3	1209.9
12.5°	1185.0	1193.5	1203.6	1204.8	1195.4
15°	1164.2	1171.9	1183.0	1190.1	1174.7
17.5°	1140.8	1148.3	1162.6	1163.9	1154.6
20°	1114.7	1124.1	1141.2	1144.2	1127.5
22.5°	1085.2	1097.7	1112.0	1114.9	1102.5
25°	1054.2	1067.1	1084.8	1088.8	1072.3
27.5°	1021.7	1034.2	1054.0	1056.9	1043.0
30°	987.0	998.6	1020.4	1025.2	1011.1
32.5°	951.7	963.4	987.5	991.5	977.8
35°	912.5	926.8	948.7	955.3	939.9
37.5°	872.6	886.4	911.4	917.3	900.7
40°	831.2	844.9	869.5	874.4	858.4
42.5°	788.9	802.7	828.9	829.6	816.4
45°	745.7	758.9	783.3	784.0	768.5
47.5°	701.9	715.2	737.0	734.6	720.0
50°	657.5	670.2	689.3	684.4	671.3
52.5°	611.6	623.9	641.9	633.9	621.6
55°	565.4	576.8	591.9	583.3	573.7
57.5°	518.8	530.4	541.9	533.2	524.9
60°	471.9	482.0	491.5	482.7	476.3
62.5°	424.2	432.8	441.0	432.6	426.6
65°	375.9	383.6	390.3	382.5	376.2
67.5°	327.9	334.4	340.6	332.6	326.0
70°	279.9	285.5	291.2	282.9	276.8
72.5°	232.6	237.5	242.6	234.5	229.2
75°	186.5	190.8	195.0	187.8	183.7
77.5°	142.6	146.2	149.0	144.5	140.5
80°	101.7	104.4	106.1	104.3	100.5
82.5°	65.4	67.3	68.2	68.1	65.6
85°	35.5	36.2	37.9	38.3	37.0
87.5°	13.7	14.7	15.0	16.2	14.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)