

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: METALUX

Report Number: P231416

Luminaire Tested: **SSLED-LD5-24-W-UNV-L835-CD2-U-FRR22**

Issue Date: 3/3/2020

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: P231416
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1708-240-2)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: SSLED-LD5-24-W-UNV-L835-CD2-U-FRR22
Description: STEELER WHITE REFRACTOR LENS
Light Source: (240) 3500 CCT, 80 CRI LEDS
Ballast/Driver: (2) ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22456.0 lumens
Efficiency: N/A
Efficacy: 117.8 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.43 / 1.45
Luminous Opening: Vertical Cylinder (Dia: 1.83' x H: 1')
CIE Type: Direct

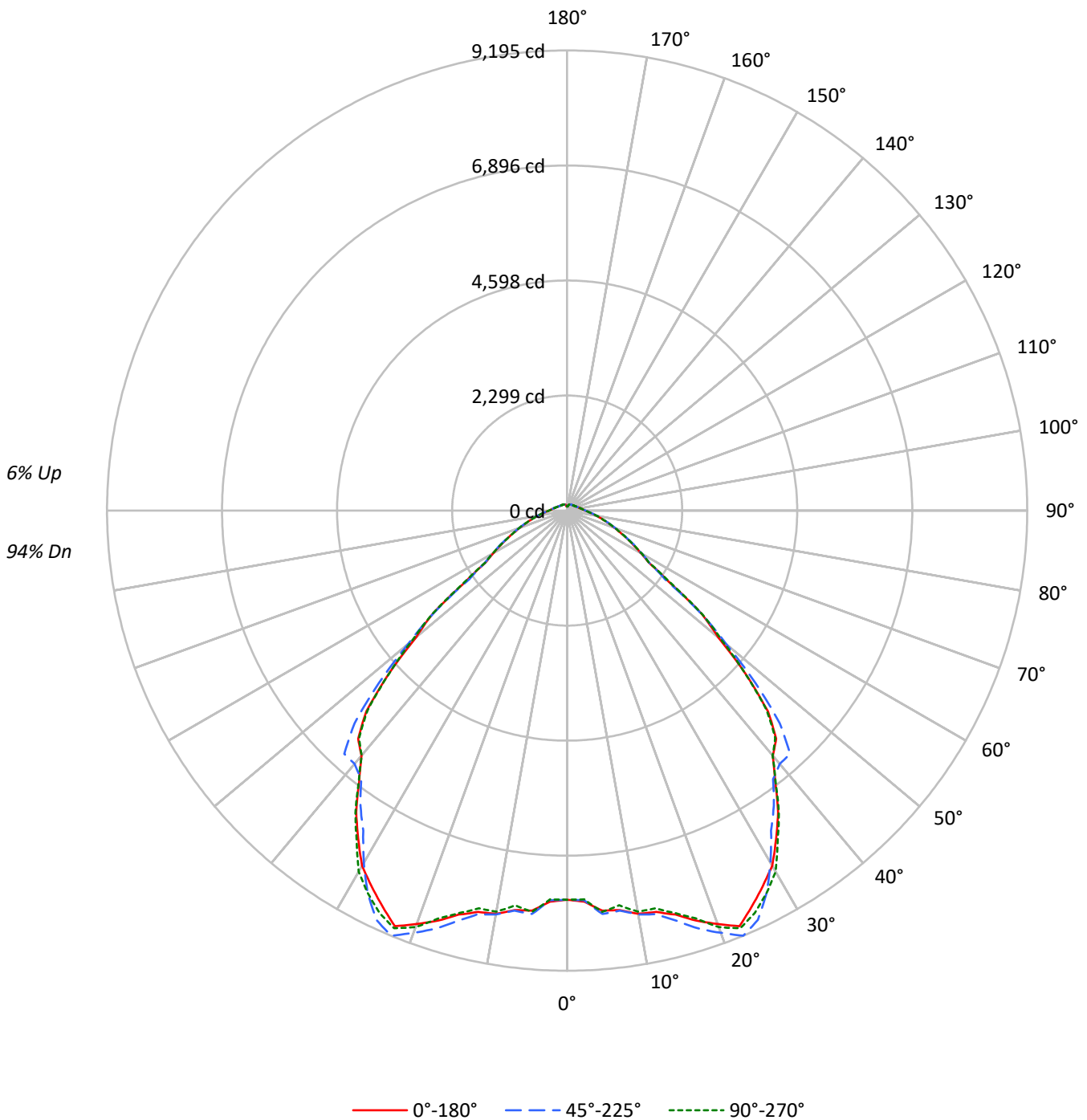
Input Watts (W): 190.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	94
1	109	104	100	97	105	101	98	95	96	93	91	91	89	87	87	85	84	81
2	100	93	87	81	97	90	85	80	86	81	77	82	78	75	78	75	72	70
3	92	83	75	69	89	81	74	69	77	71	67	74	69	65	70	66	63	61
4	85	74	66	60	82	72	65	59	69	63	58	66	61	57	64	59	55	53
5	79	67	59	53	76	65	58	52	63	56	51	60	55	50	58	53	49	47
6	73	61	52	46	71	59	52	46	57	50	45	55	49	44	53	48	44	42
7	68	55	47	41	66	54	47	41	52	45	40	50	44	40	49	43	39	37
8	63	51	43	37	61	50	42	37	48	41	36	46	40	36	45	39	35	33
9	59	47	39	34	58	46	38	33	44	38	33	43	37	32	41	36	32	30
10	55	43	35	31	54	42	35	30	41	34	30	40	34	30	38	33	29	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	31705	31705	31705
5°	30959	31219	31057
10°	30174	30226	30020
15°	29742	30214	29627
20°	30443	31100	30681
25°	29669	30661	30147
30°	27542	27308	28003
35°	24612	24118	24706
40°	21501	22228	21485
45°	19304	20455	19193
50°	13691	14418	14026
55°	8834	8515	9017
60°	6305	6391	6391
65°	5110	5168	5115
70°	4123	4189	4166
75°	3386	3437	3396
80°	2825	2858	2852
85°	2385	2428	2404



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	767.0	3.4
10°-20°	2415.5	10.8
20°-30°	4086.3	18.2
30°-40°	4569.2	20.3
40°-50°	4318.4	19.2
50°-60°	2373.8	10.6
60°-70°	1328.6	5.9
70°-80°	835.6	3.7
80°-90°	509.2	2.3
90°-100°	339.9	1.5
100°-110°	253.4	1.1
110°-120°	193.9	0.9
120°-130°	151.3	0.7
130°-140°	118.8	0.5
140°-150°	90.9	0.4
150°-160°	63.1	0.3
160°-170°	32.8	0.1
170°-180°	8.3	0.0
0°-30°	7268.8	32.4
0°-40°	11838.1	52.7
0°-60°	18530.3	82.5
0°-90°	21203.7	94.4
90°-120°	787.2	3.5
90°-150°	1148.1	5.1
90°-180°	1252.0	5.6
0°-180°	22456.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7776	7776	7776	7776	7776	
5°	8023	8037	8091	8038	8049	767
15°	8357	8435	8489	8396	8324	2394
25°	8730	9042	9022	9168	8871	4002
35°	7349	7193	7201	7216	7377	4570
45°	5672	5624	6011	5574	5640	4207
55°	2475	2460	2386	2501	2526	2362
65°	1318	1323	1334	1326	1320	1315
75°	772	778	784	781	774	827
85°	456	457	464	458	459	401
90°	359	363	365	364	362	199
95°	306	308	310	309	308	243
105°	237	237	238	238	238	252
115°	193	194	194	195	195	193
125°	166	167	167	169	169	150
135°	152	152	152	152	154	118
145°	144	144	144	144	145	91
155°	136	137	136	136	137	63
165°	115	115	114	114	114	33
175°	84	84	82	82	84	8
180°	86	86	86	86	86	



TEST NUMBER: P231416

CATALOG NUMBER: SSLED-LD5-24-W-UNV-L835-CD2-U-FRR22

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7775.5	7775.5	7775.5	7775.5	7775.5
2.5°	7820.9	7815.1	7794.1	7774.4	7775.5
5°	8023.2	8037.1	8090.6	8038.3	8048.7
7.5°	8051.1	8083.6	8062.7	8018.5	7955.7
10°	8180.1	8191.7	8194.1	8170.8	8138.3
12.5°	8215.0	8322.0	8261.5	8240.6	8142.9
15°	8356.8	8434.7	8489.4	8396.4	8324.3
17.5°	8592.8	8725.4	8760.3	8720.7	8540.5
20°	8789.3	8974.2	8978.8	8996.3	8857.9
22.5°	8990.5	9164.9	9195.1	9227.6	9033.5
25°	8730.0	9041.6	9021.9	9168.3	8870.7
27.5°	8462.6	8687.0	8627.7	8794.0	8621.9
30°	8195.2	8245.2	8125.5	8295.2	8332.4
32.5°	7770.9	7618.6	7584.9	7684.9	7827.9
35°	7348.9	7193.1	7201.2	7216.3	7376.8
37.5°	6826.8	6986.1	6760.6	7029.1	6842.0
40°	6393.2	6638.5	6609.4	6647.8	6388.5
42.5°	6181.6	6170.0	6593.2	6178.1	6152.5
45°	5672.4	5623.5	6010.7	5573.6	5639.8
47.5°	4843.4	5156.2	5108.5	5158.5	4838.8
50°	3944.7	4250.5	4154.0	4326.1	4041.2
52.5°	3394.8	3244.8	3354.1	3291.3	3408.8
55°	2475.2	2460.1	2385.7	2500.8	2526.4
57.5°	1934.6	1945.0	1953.2	1946.2	1941.6
60°	1703.2	1727.6	1726.5	1725.3	1726.5
62.5°	1496.3	1510.2	1525.3	1514.9	1516.0
65°	1318.4	1323.0	1333.5	1326.5	1319.6
67.5°	1146.3	1160.3	1166.1	1167.3	1161.4
70°	1005.7	1016.1	1021.9	1019.6	1016.1
72.5°	885.9	891.7	902.2	898.7	891.7
75°	772.0	777.8	783.6	781.3	774.3
77.5°	676.6	681.3	685.9	687.1	682.5
80°	594.1	598.7	601.1	597.6	599.9
82.5°	519.7	524.3	526.7	525.5	524.3
85°	455.7	456.9	463.9	458.1	459.2
87.5°	401.1	402.3	404.6	404.6	402.3
90°	359.2	362.7	365.1	363.9	361.6
92.5°	330.2	333.7	333.7	333.7	332.5
95°	305.8	308.1	310.4	309.3	308.1
97.5°	286.0	287.2	289.5	288.3	287.2
100°	267.4	268.6	270.9	269.7	268.6
102.5°	250.0	252.3	253.4	253.4	252.3
105°	237.2	237.2	238.3	238.3	238.3
107.5°	224.4	224.4	225.5	225.5	225.5
110°	213.9	213.9	213.9	213.9	215.1



TEST NUMBER: P231416

CATALOG NUMBER: SSLED-LD5-24-W-UNV-L835-CD2-U-FRR22

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	202.3	203.5	203.5	203.5	204.6
115°	193.0	194.2	194.2	195.3	195.3
117.5°	184.9	184.9	186.0	186.0	187.2
120°	177.9	179.0	179.0	180.2	180.2
122.5°	172.1	172.1	173.2	173.2	174.4
125°	166.3	167.4	167.4	168.6	168.6
127.5°	161.6	162.8	163.9	163.9	163.9
130°	159.3	160.4	160.4	160.4	161.6
132.5°	155.8	155.8	155.8	157.0	158.1
135°	152.3	152.3	152.3	152.3	153.5
137.5°	148.8	150.0	150.0	150.0	150.0
140°	146.5	147.7	147.7	147.7	147.7
142.5°	145.3	146.5	146.5	146.5	146.5
145°	144.2	144.2	144.2	144.2	145.3
147.5°	143.0	143.0	143.0	143.0	143.0
150°	141.8	141.8	140.7	140.7	141.8
152.5°	139.5	139.5	138.4	139.5	139.5
155°	136.0	137.2	136.0	136.0	137.2
157.5°	133.7	133.7	133.7	133.7	133.7
160°	129.0	129.0	127.9	127.9	129.0
162.5°	122.1	122.1	122.1	122.1	122.1
165°	115.1	115.1	113.9	113.9	113.9
167.5°	107.0	107.0	107.0	107.0	107.0
170°	96.5	97.7	96.5	96.5	96.5
172.5°	84.9	84.9	84.9	84.9	84.9
175°	83.7	83.7	82.5	82.5	83.7
177.5°	83.7	84.9	84.9	84.9	83.7
180°	86.0	86.0	86.0	86.0	86.0

(END OF REPORT)