

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: P275652

Luminaire Tested: **14CZ2-39-S-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275652
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-40)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-39-S-UNV-L82765-W2A1-U-2700K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3567.0 lumens
Efficiency: N/A
Efficacy: 115.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

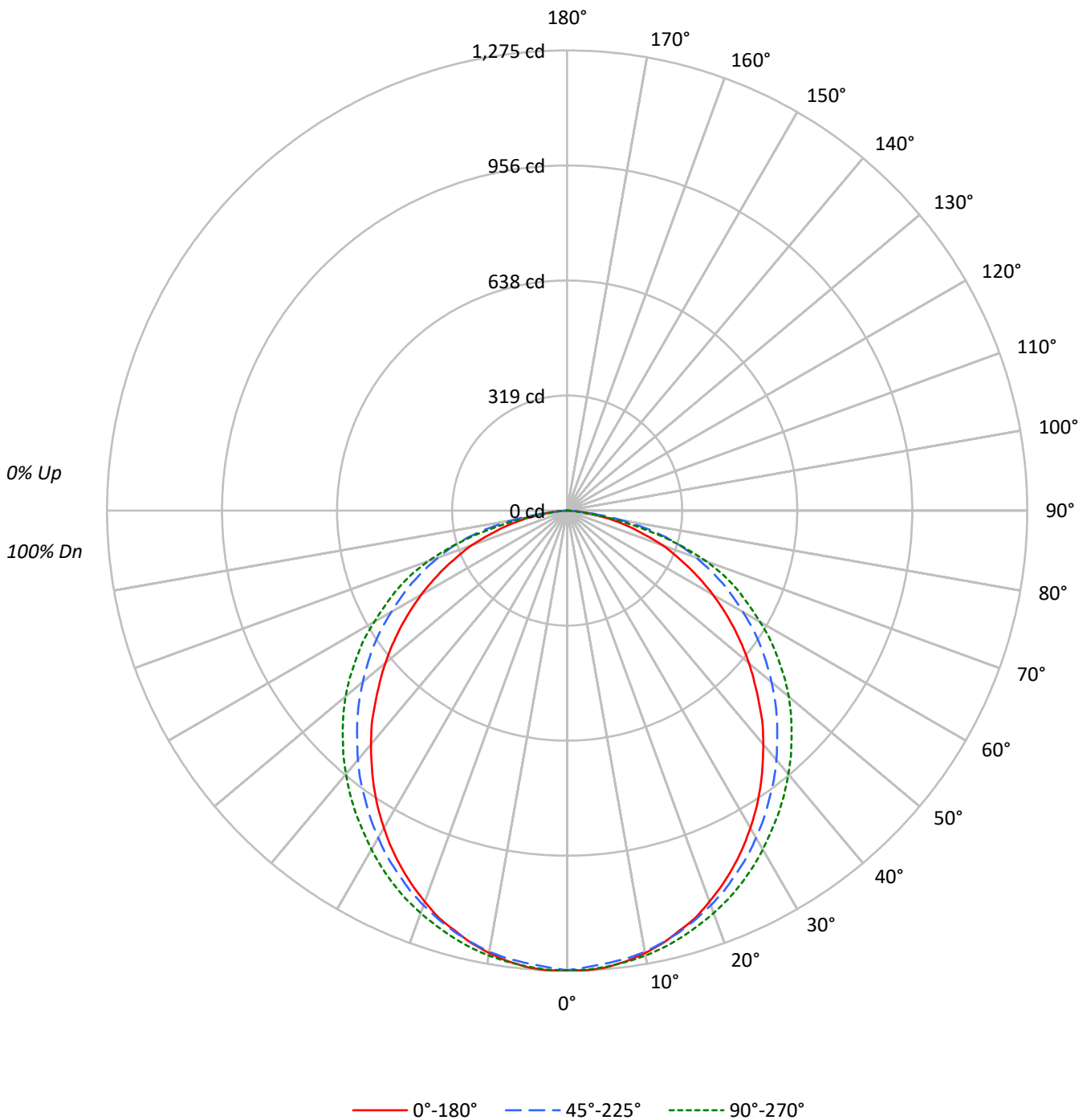
Input Watts (W): 30.969
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P275652

CATALOG NUMBER: 14CZ2-39-S-UNV-L82765-W2A1-U-2700K

Luminous Intensity Polar Plot





TEST NUMBER: P275652

CATALOG NUMBER: 14CZ2-39-S-UNV-L82765-W2A1-U-2700K

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	104	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86	84
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3427	3427	3427
5°	3430	3401	3425
10°	3402	3392	3421
15°	3355	3365	3409
20°	3302	3332	3398
25°	3235	3293	3387
30°	3155	3253	3369
35°	3068	3207	3358
40°	2970	3169	3349
45°	2860	3130	3345
50°	2754	3095	3354
55°	2639	3070	3344
60°	2513	3027	3322
65°	2365	3018	3322
70°	2227	2991	3228
75°	1931	2924	2758
80°	1562	2357	1836
85°	1037	818	546



TEST NUMBER: P275652

CATALOG NUMBER: 14CZ2-39-S-UNV-L82765-W2A1-U-2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.2	3.4
10°-20°	342.2	9.6
20°-30°	513.2	14.4
30°-40°	612.3	17.2
40°-50°	633.0	17.7
50°-60°	577.9	16.2
60°-70°	454.8	12.7
70°-80°	264.7	7.4
80°-90°	48.8	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°	975.6	27.4
0°-40°	1587.9	44.5
0°-60°	2798.7	78.5
0°-90°	3567.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3567.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1273	1273	1273	1273	1273	
5°	1270	1266	1259	1270	1268	120
15°	1204	1206	1208	1224	1224	340
25°	1089	1095	1109	1135	1141	502
35°	934	946	976	1013	1022	584
45°	752	776	822	868	879	580
55°	562	592	654	702	713	503
65°	371	410	474	511	522	369
75°	186	230	281	276	265	197
85°	34	48	26	21	18	44
90°	0	0	0	0	0	



TEST NUMBER: P275652

CATALOG NUMBER: 14CZ2-39-S-UNV-L82765-W2A1-U-2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1273.4	1273.4	1273.4	1273.4	1273.4
2.5°	1275.1	1271.6	1266.3	1275.1	1273.4
5°	1269.8	1266.3	1259.2	1269.8	1268.1
7.5°	1259.2	1255.7	1252.1	1262.7	1261.0
10°	1245.1	1243.3	1241.5	1253.9	1252.1
12.5°	1227.4	1227.4	1225.6	1239.8	1239.8
15°	1204.4	1206.2	1207.9	1223.8	1223.8
17.5°	1183.2	1181.4	1186.7	1204.4	1206.2
20°	1153.1	1156.6	1163.7	1184.9	1186.7
22.5°	1123.0	1126.6	1138.9	1160.2	1165.5
25°	1089.4	1094.7	1108.9	1135.4	1140.7
27.5°	1054.1	1061.1	1080.6	1108.9	1114.2
30°	1015.2	1025.8	1047.0	1078.8	1084.1
32.5°	976.2	986.9	1013.4	1045.2	1052.3
35°	933.8	946.2	976.2	1013.4	1022.2
37.5°	889.6	905.5	940.9	978.0	988.6
40°	845.4	863.1	902.0	940.9	953.3
42.5°	801.2	818.8	861.3	905.5	917.9
45°	751.6	776.4	822.4	868.4	879.0
47.5°	703.9	730.4	781.7	827.7	841.8
50°	657.9	684.4	739.3	787.0	801.2
52.5°	610.2	638.4	696.8	746.3	758.7
55°	562.4	592.5	654.4	702.1	712.7
57.5°	514.6	546.5	610.2	656.1	668.5
60°	466.9	500.5	562.4	608.4	617.2
62.5°	419.1	454.5	518.2	558.9	567.7
65°	371.4	410.3	474.0	511.1	521.7
67.5°	325.4	364.3	426.2	461.6	470.4
70°	283.0	318.3	380.2	406.8	410.3
72.5°	229.9	274.1	334.3	348.4	339.6
75°	185.7	229.9	281.2	275.9	265.3
77.5°	141.5	185.7	219.3	201.6	187.5
80°	100.8	145.0	152.1	125.6	118.5
82.5°	65.4	100.8	84.9	65.4	53.1
85°	33.6	47.8	26.5	21.2	17.7
87.5°	10.6	7.1	3.5	3.5	1.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)