

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: P277559

Luminaire Tested: **22CZ2-24HE-RDP-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277559
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-24)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-24HE-RDP-UNV-L82765-W2A1-U-3500K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1485.0 lumens
Efficiency: N/A
Efficacy: 84.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

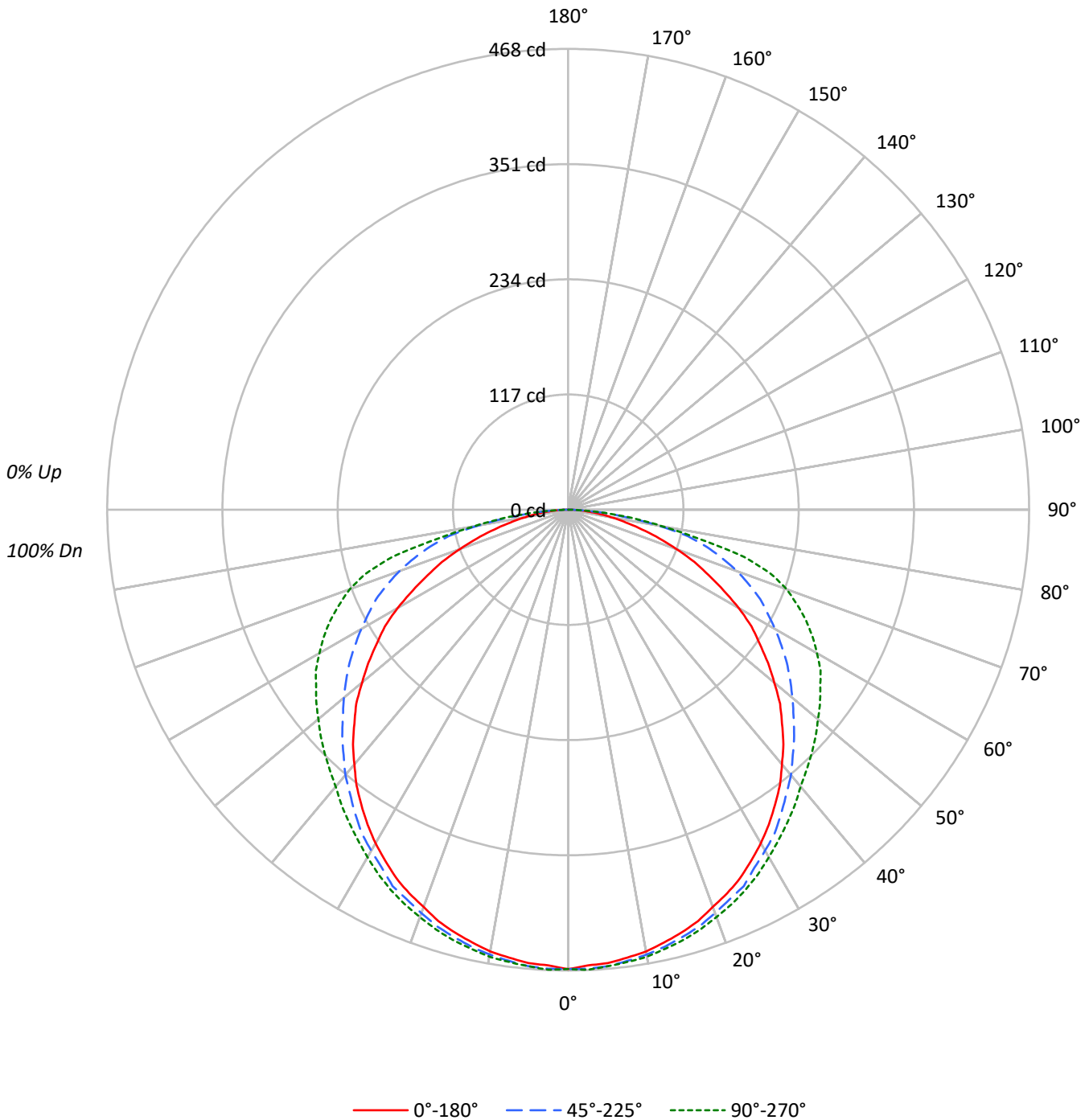
Input Watts (W): 17.67
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P277559

CATALOG NUMBER: 22CZ2-24HE-RDP-UNV-L82765-W2A1-U-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P277559

CATALOG NUMBER: 22CZ2-24HE-RDP-UNV-L82765-W2A1-U-3500K

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	108	103	98	94	105	100	96	92	96	92	89	92	89	86	88	86	84	82
2	97	88	81	75	95	86	80	74	83	77	72	80	75	71	76	72	69	67
3	88	77	68	61	86	75	67	61	72	65	60	70	64	59	67	62	58	55
4	80	68	59	51	78	66	58	51	64	56	50	61	55	50	59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35
7	63	49	40	33	61	48	39	33	47	39	33	45	38	33	44	37	33	31
8	59	45	36	30	57	44	35	30	43	35	29	41	34	29	40	34	29	27
9	55	41	32	27	53	40	32	27	39	32	26	38	31	26	37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1255	1255	1255
5°	1248	1257	1257
10°	1245	1254	1260
15°	1239	1251	1260
20°	1229	1248	1261
25°	1226	1252	1265
30°	1215	1242	1266
35°	1202	1238	1274
40°	1186	1236	1290
45°	1168	1235	1330
50°	1143	1244	1386
55°	1112	1271	1466
60°	1076	1305	1570
65°	1002	1370	1698
70°	920	1435	1857
75°	807	1511	1919
80°	694	1440	1506
85°	608	1047	1145



TEST NUMBER: P277559

CATALOG NUMBER: 22CZ2-24HE-RDP-UNV-L82765-W2A1-U-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.1	3.0
10°-20°	126.7	8.5
20°-30°	193.3	13.0
30°-40°	236.0	15.9
40°-50°	252.3	17.0
50°-60°	243.6	16.4
60°-70°	209.7	14.1
70°-80°	141.9	9.6
80°-90°	37.4	2.5
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°	364.1	24.5
0°-40°	600.1	40.4
0°-60°	1096.0	73.8
0°-90°	1485.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1485.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	466	466	466	466	466	
5°	462	463	465	465	465	44
15°	445	446	449	451	452	125
25°	413	415	422	424	426	190
35°	366	369	377	384	388	229
45°	307	312	324	341	350	237
55°	237	245	271	298	312	212
65°	157	173	215	249	267	156
75°	78	103	145	175	185	83
85°	20	27	34	35	37	22
90°	0	0	0	0	0	



TEST NUMBER: P277559

CATALOG NUMBER: 22CZ2-24HE-RDP-UNV-L82765-W2A1-U-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	466.5	466.5	466.5	466.5	466.5
2.5°	463.2	464.3	466.5	466.5	467.6
5°	462.1	463.2	465.4	465.4	465.4
7.5°	458.8	459.9	462.1	463.2	463.2
10°	455.5	456.6	458.8	459.9	461.0
12.5°	450.1	451.2	454.4	456.6	456.6
15°	444.6	445.7	449.0	451.2	452.3
17.5°	438.1	440.2	443.5	445.7	446.8
20°	429.3	431.5	435.9	439.2	440.2
22.5°	421.7	423.9	428.2	431.5	433.7
25°	412.9	415.1	421.7	423.9	426.0
27.5°	402.0	404.2	409.7	414.0	417.3
30°	391.1	393.3	399.8	405.3	407.5
32.5°	379.1	382.3	390.0	394.4	397.6
35°	366.0	369.2	376.9	384.5	387.8
37.5°	352.9	356.1	363.8	373.6	378.0
40°	337.6	341.9	351.8	364.9	367.1
42.5°	323.4	328.8	337.6	352.9	358.3
45°	307.0	312.4	324.4	340.8	349.6
47.5°	291.7	297.1	310.2	329.9	340.8
50°	273.1	280.8	297.1	320.1	331.0
52.5°	255.6	262.2	284.0	309.2	322.3
55°	237.1	244.7	270.9	298.2	312.4
57.5°	220.7	227.2	256.7	287.3	303.7
60°	199.9	208.7	242.5	275.3	291.7
62.5°	178.1	191.2	228.3	262.2	279.7
65°	157.3	172.6	215.2	249.1	266.6
67.5°	138.7	155.1	198.8	234.9	251.3
70°	116.9	137.6	182.4	217.4	236.0
72.5°	97.2	120.2	163.9	198.8	215.2
75°	77.6	102.7	145.3	174.8	184.6
77.5°	60.1	84.1	124.5	133.3	134.4
80°	44.8	66.6	92.9	93.9	97.2
82.5°	30.6	47.0	60.1	65.5	66.6
85°	19.7	27.3	33.9	35.0	37.1
87.5°	8.7	9.8	12.0	10.9	10.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)