

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: P277631

Luminaire Tested: **22CZ2-34HE-RDP-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277631
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: 22CZ2-34HE-RDP-UNV-L92765-W2A1-U-3500K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1834.0 lumens
Efficiency: N/A
Efficacy: 71.2 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

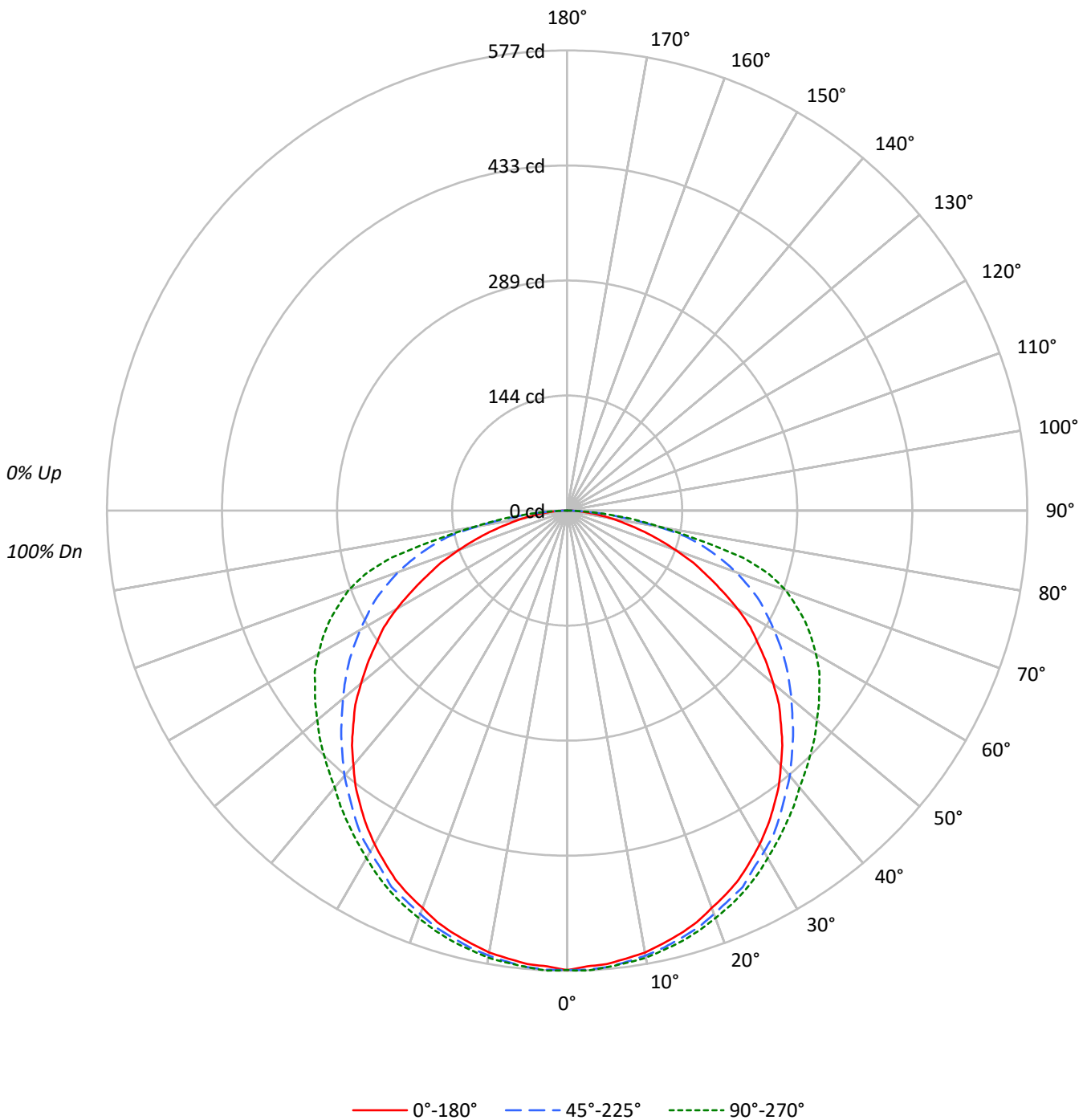
Input Watts (W): 25.761
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P277631

CATALOG NUMBER: 22CZ2-34HE-RDP-UNV-L92765-W2A1-U-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P277631

CATALOG NUMBER: 22CZ2-34HE-RDP-UNV-L92765-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	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					100			
1	108	103	98	94	105	100	96	92	96	92	89	92	89	86	88	86	84	82					82			
2	97	88	81	75	95	86	80	74	83	77	72	80	75	71	76	72	69	67					67			
3	88	77	68	61	86	75	67	61	72	65	60	70	64	59	67	62	58	55					55			
4	80	68	59	51	78	66	58	51	64	56	50	61	55	50	59	54	49	47					47			
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40					40			
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35					35			
7	63	49	40	33	61	48	39	33	47	39	33	45	38	33	44	37	33	31					31			
8	59	45	36	30	57	44	35	30	43	35	29	41	34	29	40	34	29	27					27			
9	55	41	32	27	53	40	32	27	39	32	26	38	31	26	37	31	26	24					24			
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22					22			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1550	1550	1550
5°	1542	1552	1552
10°	1537	1548	1556
15°	1530	1545	1556
20°	1518	1542	1557
25°	1514	1546	1562
30°	1501	1534	1564
35°	1485	1529	1574
40°	1464	1526	1592
45°	1443	1525	1643
50°	1412	1536	1711
55°	1374	1570	1810
60°	1329	1612	1939
65°	1237	1692	2096
70°	1136	1773	2293
75°	996	1865	2371
80°	857	1777	1861
85°	750	1291	1417



TEST NUMBER: P277631

CATALOG NUMBER: 22CZ2-34HE-RDP-UNV-L92765-W2A1-U-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.5	3.0
10°-20°	156.5	8.5
20°-30°	238.7	13.0
30°-40°	291.5	15.9
40°-50°	311.7	17.0
50°-60°	300.8	16.4
60°-70°	259.0	14.1
70°-80°	175.2	9.6
80°-90°	46.2	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°	449.7	24.5
0°-40°	741.2	40.4
0°-60°	1353.6	73.8
0°-90°	1834.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1834.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	576	576	576	576	576	
5°	571	572	575	575	575	54
15°	549	550	554	557	559	155
25°	510	513	521	524	526	235
35°	452	456	466	475	479	283
45°	379	386	401	421	432	293
55°	293	302	335	368	386	262
65°	194	213	266	308	329	193
75°	96	127	179	216	228	103
85°	24	34	42	43	46	27
90°	0	0	0	0	0	



TEST NUMBER: P277631

CATALOG NUMBER: 22CZ2-34HE-RDP-UNV-L92765-W2A1-U-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	576.1	576.1	576.1	576.1	576.1
2.5°	572.0	573.4	576.1	576.1	577.4
5°	570.7	572.0	574.7	574.7	574.7
7.5°	566.6	568.0	570.7	572.0	572.0
10°	562.6	563.9	566.6	568.0	569.3
12.5°	555.9	557.2	561.3	563.9	563.9
15°	549.1	550.5	554.5	557.2	558.6
17.5°	541.0	543.7	547.8	550.5	551.8
20°	530.2	532.9	538.3	542.4	543.7
22.5°	520.8	523.5	528.9	532.9	535.6
25°	510.0	512.7	520.8	523.5	526.2
27.5°	496.5	499.2	505.9	511.3	515.4
30°	483.0	485.7	493.8	500.5	503.2
32.5°	468.2	472.2	481.7	487.0	491.1
35°	452.0	456.0	465.5	474.9	479.0
37.5°	435.8	439.8	449.3	461.4	466.8
40°	416.9	422.3	434.4	450.6	453.3
42.5°	399.4	406.1	416.9	435.8	442.5
45°	379.1	385.9	400.7	420.9	431.7
47.5°	360.2	367.0	383.2	407.4	420.9
50°	337.3	346.7	367.0	395.3	408.8
52.5°	315.7	323.8	350.8	381.8	398.0
55°	292.8	302.2	334.6	368.3	385.9
57.5°	272.5	280.6	317.1	354.8	375.1
60°	246.9	257.7	299.5	340.0	360.2
62.5°	219.9	236.1	282.0	323.8	345.4
65°	194.3	213.2	265.8	307.6	329.2
67.5°	171.3	191.6	245.5	290.1	310.3
70°	144.4	170.0	225.3	268.5	291.4
72.5°	120.1	148.4	202.4	245.5	265.8
75°	95.8	126.8	179.4	215.9	228.0
77.5°	74.2	103.9	153.8	164.6	165.9
80°	55.3	82.3	114.7	116.0	120.1
82.5°	37.8	58.0	74.2	80.9	82.3
85°	24.3	33.7	41.8	43.2	45.9
87.5°	10.8	12.1	14.8	13.5	13.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)