

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: P277222

Luminaire Tested: **22CZ2-24HE-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277222
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-27)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-24HE-UNV-L82765-W2A1-U-3000K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2145.0 lumens
Efficiency: N/A
Efficacy: 122.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

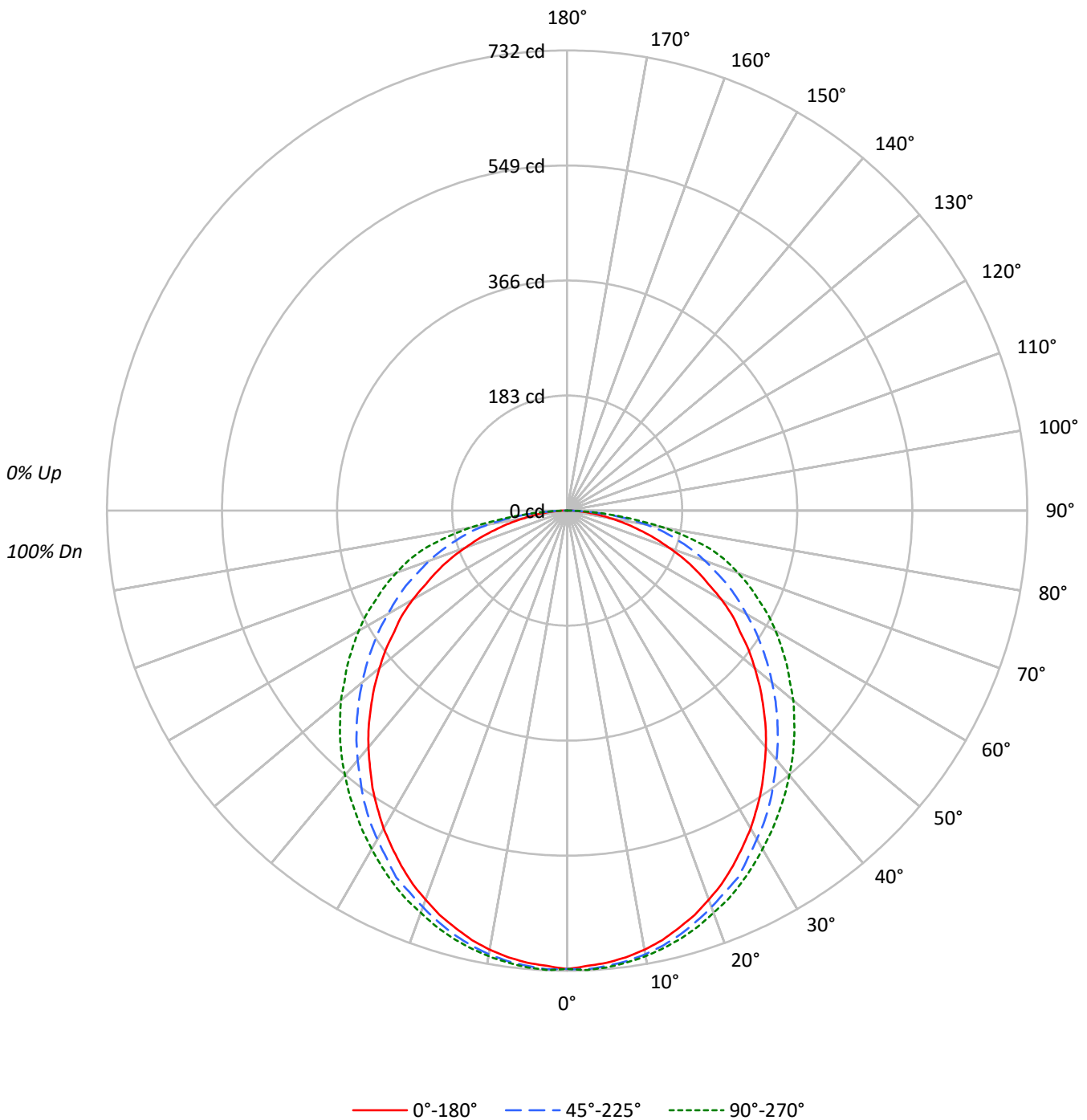
Input Watts (W): 17.484
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P277222

CATALOG NUMBER: 22CZ2-24HE-UNV-L82765-W2A1-U-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P277222

CATALOG NUMBER: 22CZ2-24HE-UNV-L82765-W2A1-U-3000K

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	101	96	93	96	93	90	92	90	87	89	86	84	82
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68
3	89	78	69	63	86	76	68	62	73	66	61	70	65	60	68	63	59	56
4	81	69	60	53	79	67	59	52	65	57	52	63	56	51	60	55	50	48
5	75	61	52	45	72	60	52	45	58	50	44	56	49	44	54	48	44	41
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31	42	35	30	41	35	30	28
9	56	42	34	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1963	1963	1963
5°	1950	1964	1970
10°	1938	1958	1967
15°	1914	1944	1961
20°	1886	1922	1950
25°	1852	1912	1943
30°	1814	1876	1932
35°	1772	1851	1928
40°	1728	1820	1932
45°	1679	1800	1944
50°	1631	1781	1966
55°	1574	1773	2000
60°	1528	1772	2062
65°	1452	1801	2137
70°	1353	1836	2275
75°	1240	1899	2458
80°	1080	1979	2421
85°	945	1760	1924



TEST NUMBER: P277222

CATALOG NUMBER: 22CZ2-24HE-UNV-L82765-W2A1-U-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.0	3.2
10°-20°	196.5	9.2
20°-30°	294.9	13.7
30°-40°	352.4	16.4
40°-50°	366.5	17.1
50°-60°	339.6	15.8
60°-70°	278.6	13.0
70°-80°	188.3	8.8
80°-90°	59.2	2.8
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°	560.4	26.1
0°-40°	912.8	42.6
0°-60°	1618.9	75.5
0°-90°	2145.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2145.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	729	729	729	729	729	
5°	722	723	727	728	729	69
15°	687	690	698	702	704	194
25°	624	629	644	651	654	287
35°	539	547	564	580	587	337
45°	441	450	473	500	511	341
55°	336	346	378	412	426	302
65°	228	241	283	320	336	225
75°	119	139	183	220	236	126
85°	31	42	57	63	62	35
90°	0	0	0	0	0	



TEST NUMBER: P277222

CATALOG NUMBER: 22CZ2-24HE-UNV-L82765-W2A1-U-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	729.3	729.3	729.3	729.3	729.3
2.5°	725.1	727.2	730.4	731.5	731.5
5°	722.0	723.0	727.2	728.3	729.3
7.5°	716.7	718.8	723.0	724.1	725.1
10°	709.3	711.4	716.7	718.8	719.8
12.5°	699.8	701.9	708.2	711.4	712.5
15°	687.1	690.3	697.7	701.9	704.0
17.5°	674.5	677.6	685.0	691.3	693.5
20°	658.6	666.0	671.3	679.7	680.8
22.5°	642.8	647.0	656.5	665.0	669.2
25°	623.8	629.1	643.8	651.2	654.4
27.5°	603.7	611.1	622.7	634.3	638.6
30°	583.7	589.0	603.7	617.5	621.7
32.5°	561.5	568.9	584.7	598.5	604.8
35°	539.4	546.7	563.6	580.5	586.8
37.5°	515.1	523.5	540.4	560.5	568.9
40°	491.9	498.2	518.2	542.5	549.9
42.5°	467.6	475.0	496.1	522.5	530.9
45°	441.2	449.6	472.9	500.3	510.9
47.5°	415.9	424.3	449.6	477.1	489.7
50°	389.5	400.0	425.4	457.0	469.7
52.5°	364.1	373.6	402.1	434.9	446.5
55°	335.6	346.2	377.9	411.6	426.4
57.5°	312.4	319.8	354.6	389.5	404.3
60°	283.9	293.4	329.3	366.3	383.1
62.5°	253.3	269.1	306.1	344.1	361.0
65°	228.0	240.7	282.9	319.8	335.6
67.5°	201.6	215.3	256.5	295.5	313.5
70°	172.0	190.0	233.3	272.3	289.2
72.5°	145.7	164.7	209.0	247.0	264.9
75°	119.3	139.3	182.6	219.5	236.4
77.5°	93.9	116.1	158.3	186.8	197.4
80°	69.7	90.8	127.7	147.8	156.2
82.5°	48.6	66.5	93.9	104.5	106.6
85°	30.6	42.2	57.0	63.3	62.3
87.5°	13.7	16.9	21.1	23.2	22.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)