

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: P277281

Luminaire Tested: **22CZ2-24HE-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277281
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-L92765-W2A1-U-5500K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2132.0 lumens
Efficiency: N/A
Efficacy: 118.2 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

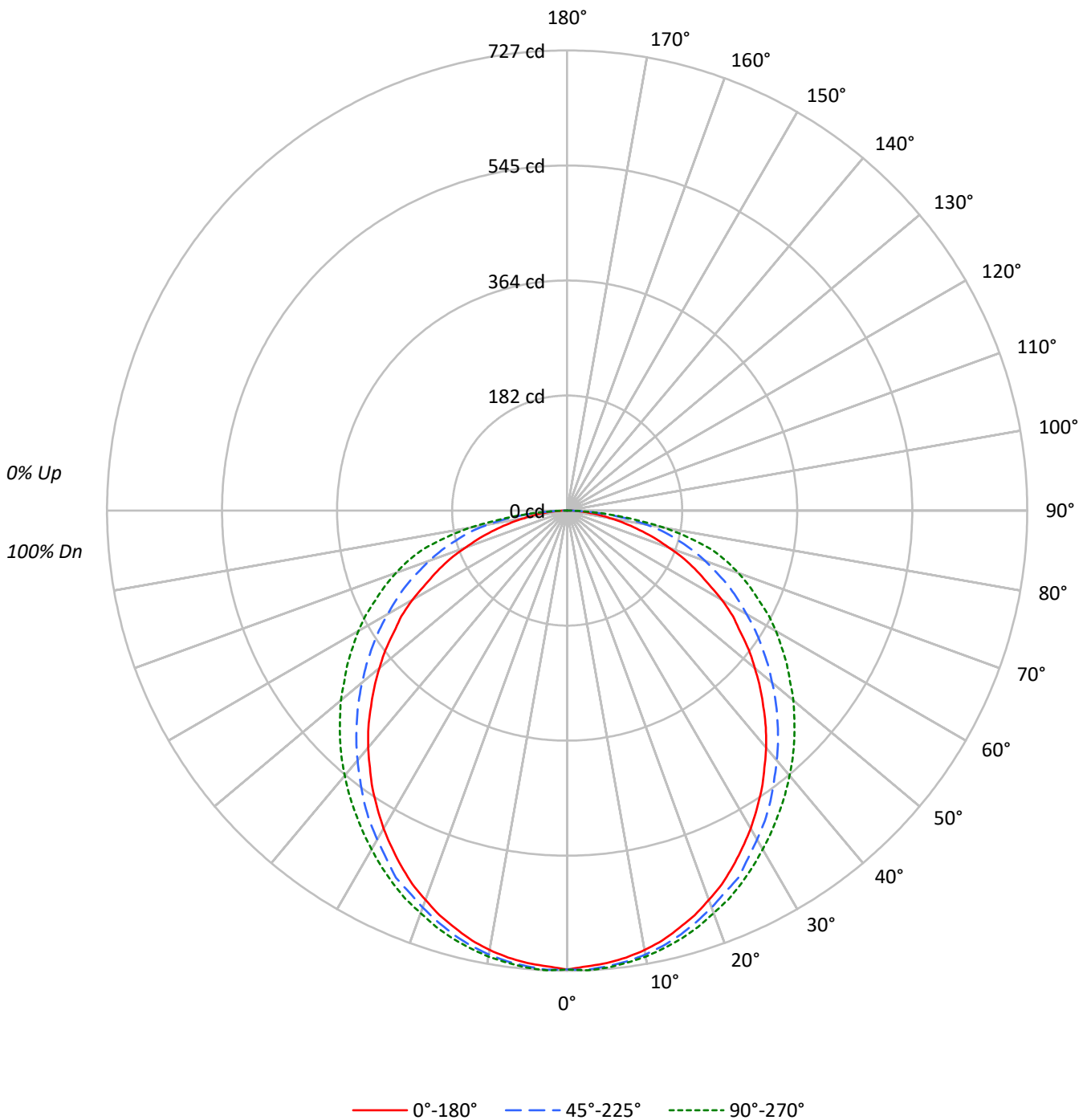
Input Watts (W): 18.042
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1951	1951	1951
5°	1938	1952	1958
10°	1926	1946	1955
15°	1903	1932	1949
20°	1875	1911	1938
25°	1841	1900	1931
30°	1803	1865	1920
35°	1761	1840	1916
40°	1717	1809	1920
45°	1669	1789	1932
50°	1621	1770	1954
55°	1565	1762	1988
60°	1519	1762	2049
65°	1443	1791	2124
70°	1345	1824	2261
75°	1232	1887	2443
80°	1072	1967	2407
85°	939	1751	1911



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.6	3.2
10°-20°	195.3	9.2
20°-30°	293.1	13.7
30°-40°	350.3	16.4
40°-50°	364.2	17.1
50°-60°	337.6	15.8
60°-70°	276.9	13.0
70°-80°	187.2	8.8
80°-90°	58.8	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°	557.0	26.1
0°-40°	907.2	42.6
0°-60°	1609.1	75.5
0°-90°	2132.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2132.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	725	725	725	725	725	
5°	718	719	723	724	725	68
15°	683	686	693	698	700	193
25°	620	625	640	647	650	286
35°	536	543	560	577	583	335
45°	438	447	470	497	508	339
55°	334	344	376	409	424	300
65°	227	239	281	318	334	224
75°	118	138	182	218	235	126
85°	30	42	57	63	62	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	724.9	724.9	724.9	724.9	724.9
2.5°	720.7	722.8	726.0	727.0	727.0
5°	717.6	718.6	722.8	723.9	724.9
7.5°	712.3	714.4	718.6	719.7	720.7
10°	705.0	707.1	712.3	714.4	715.5
12.5°	695.5	697.6	703.9	707.1	708.1
15°	683.0	686.1	693.4	697.6	699.7
17.5°	670.4	673.5	680.9	687.2	689.3
20°	654.6	662.0	667.2	675.6	676.7
22.5°	638.9	643.1	652.5	660.9	665.1
25°	620.0	625.3	639.9	647.3	650.4
27.5°	600.1	607.4	619.0	630.5	634.7
30°	580.1	585.4	600.1	613.7	617.9
32.5°	558.1	565.5	581.2	594.8	601.1
35°	536.1	543.4	560.2	577.0	583.3
37.5°	512.0	520.3	537.1	557.1	565.5
40°	488.9	495.2	515.1	539.2	546.6
42.5°	464.7	472.1	493.1	519.3	527.7
45°	438.5	446.9	470.0	497.3	507.8
47.5°	413.3	421.7	446.9	474.2	486.8
50°	387.1	397.6	422.8	454.3	466.8
52.5°	361.9	371.4	399.7	432.2	443.8
55°	333.6	344.1	375.6	409.1	423.8
57.5°	310.5	317.9	352.5	387.1	401.8
60°	282.2	291.6	327.3	364.0	380.8
62.5°	251.8	267.5	304.2	342.0	358.8
65°	226.6	239.2	281.2	317.9	333.6
67.5°	200.4	214.0	254.9	293.7	311.6
70°	171.0	188.8	231.8	270.7	287.4
72.5°	144.8	163.7	207.7	245.5	263.3
75°	118.5	138.5	181.5	218.2	235.0
77.5°	93.4	115.4	157.4	185.7	196.2
80°	69.2	90.2	126.9	146.9	155.3
82.5°	48.3	66.1	93.4	103.9	106.0
85°	30.4	42.0	56.7	62.9	61.9
87.5°	13.6	16.8	21.0	23.1	22.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)