

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: P277224

Luminaire Tested: **22CZ2-24HE-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277224
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-4000K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2268.0 lumens
Efficiency: N/A
Efficacy: 127.7 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

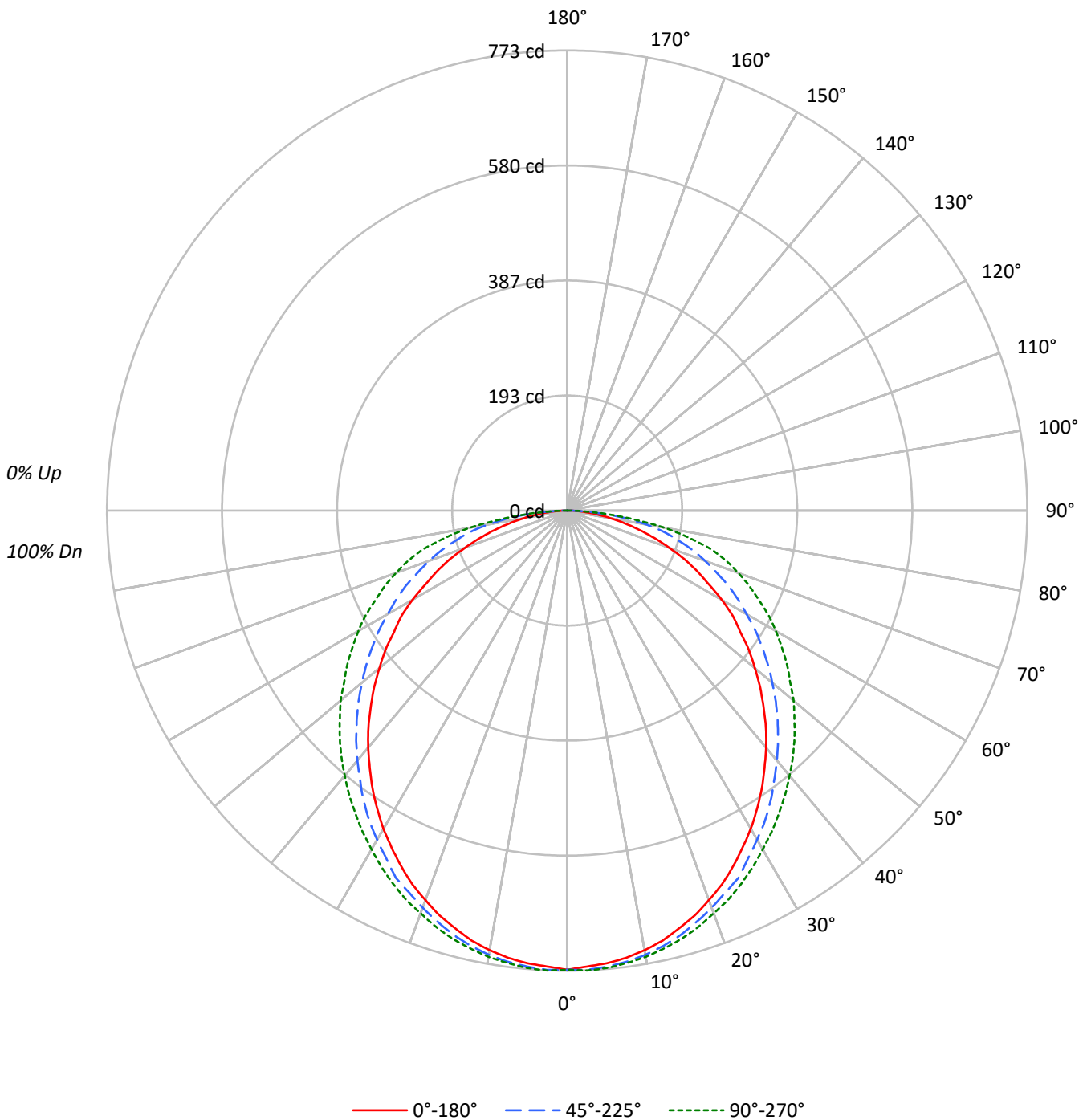
Input Watts (W): 17.763
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2075	2075	2075
5°	2062	2077	2083
10°	2049	2071	2080
15°	2024	2055	2074
20°	1994	2033	2061
25°	1958	2021	2054
30°	1918	1984	2042
35°	1873	1958	2038
40°	1827	1925	2042
45°	1775	1903	2055
50°	1724	1883	2079
55°	1665	1874	2115
60°	1616	1874	2180
65°	1535	1904	2260
70°	1431	1940	2406
75°	1311	2008	2599
80°	1142	2092	2560
85°	1000	1862	2032



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.9	3.2
10°-20°	207.7	9.2
20°-30°	311.8	13.7
30°-40°	372.6	16.4
40°-50°	387.5	17.1
50°-60°	359.1	15.8
60°-70°	294.6	13.0
70°-80°	199.1	8.8
80°-90°	62.6	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°	592.5	26.1
0°-40°	965.1	42.6
0°-60°	1711.7	75.5
0°-90°	2268.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2268.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	771	771	771	771	771	
5°	763	764	769	770	771	72
15°	726	730	738	742	744	205
25°	660	665	681	689	692	304
35°	570	578	596	614	620	356
45°	466	475	500	529	540	360
55°	355	366	400	435	451	319
65°	241	254	299	338	355	238
75°	126	147	193	232	250	134
85°	32	45	60	67	66	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	771.2	771.2	771.2	771.2	771.2
2.5°	766.7	768.9	772.3	773.4	773.4
5°	763.3	764.5	768.9	770.0	771.2
7.5°	757.8	760.0	764.5	765.6	766.7
10°	750.0	752.2	757.8	760.0	761.1
12.5°	739.9	742.1	748.8	752.2	753.3
15°	726.5	729.9	737.7	742.1	744.4
17.5°	713.1	716.5	724.3	731.0	733.2
20°	696.4	704.2	709.8	718.7	719.8
22.5°	679.6	684.1	694.2	703.1	707.5
25°	659.6	665.1	680.8	688.6	691.9
27.5°	638.4	646.2	658.4	670.7	675.2
30°	617.2	622.7	638.4	652.9	657.3
32.5°	593.7	601.5	618.3	632.8	639.5
35°	570.3	578.1	595.9	613.8	620.5
37.5°	544.6	553.5	571.4	592.6	601.5
40°	520.1	526.8	548.0	573.6	581.4
42.5°	494.4	502.2	524.5	552.4	561.4
45°	466.5	475.4	500.0	529.0	540.1
47.5°	439.7	448.6	475.4	504.4	517.8
50°	411.8	423.0	449.8	483.2	496.6
52.5°	385.0	395.1	425.2	459.8	472.1
55°	354.9	366.1	399.5	435.2	450.9
57.5°	330.3	338.2	375.0	411.8	427.4
60°	300.2	310.3	348.2	387.3	405.1
62.5°	267.8	284.6	323.6	363.8	381.7
65°	241.1	254.4	299.1	338.2	354.9
67.5°	213.2	227.7	271.2	312.5	331.5
70°	181.9	200.9	246.6	287.9	305.8
72.5°	154.0	174.1	221.0	261.1	280.1
75°	126.1	147.3	193.1	232.1	250.0
77.5°	99.3	122.8	167.4	197.5	208.7
80°	73.7	96.0	135.0	156.2	165.2
82.5°	51.3	70.3	99.3	110.5	112.7
85°	32.4	44.6	60.3	67.0	65.8
87.5°	14.5	17.9	22.3	24.6	23.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)