

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: P277280

Luminaire Tested: **22CZ2-24HE-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277280
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-5000K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2100.0 lumens
Efficiency: N/A
Efficacy: 117.0 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

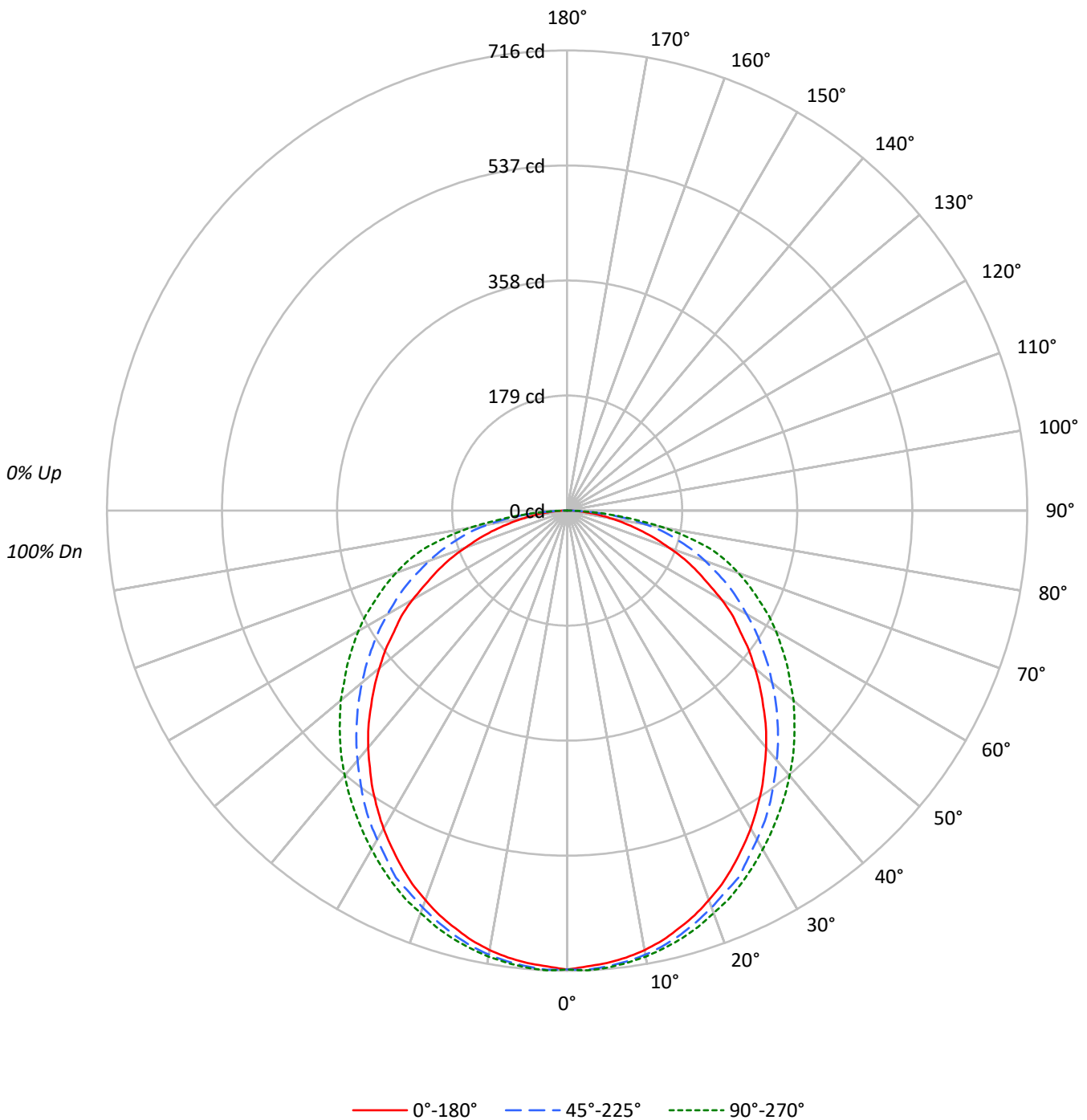
Input Watts (W): 17.949
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1921	1921	1921
5°	1909	1923	1929
10°	1897	1917	1926
15°	1874	1903	1920
20°	1847	1882	1909
25°	1813	1871	1902
30°	1775	1837	1891
35°	1735	1813	1887
40°	1691	1782	1891
45°	1644	1762	1903
50°	1596	1743	1925
55°	1542	1735	1959
60°	1496	1735	2019
65°	1421	1763	2092
70°	1325	1797	2227
75°	1214	1859	2407
80°	1057	1937	2369
85°	926	1723	1883



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.5	3.2
10°-20°	192.3	9.2
20°-30°	288.7	13.7
30°-40°	345.0	16.4
40°-50°	358.8	17.1
50°-60°	332.5	15.8
60°-70°	272.8	13.0
70°-80°	184.4	8.8
80°-90°	57.9	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°	548.6	26.1
0°-40°	893.6	42.6
0°-60°	1584.9	75.5
0°-90°	2100.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2100.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	714	714	714	714	714	
5°	707	708	712	713	714	67
15°	673	676	683	687	689	190
25°	611	616	630	638	641	281
35°	528	535	552	568	574	330
45°	432	440	463	490	500	334
55°	329	339	370	403	418	295
65°	223	236	277	313	329	221
75°	117	136	179	215	232	124
85°	30	41	56	62	61	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	714.0	714.0	714.0	714.0	714.0
2.5°	709.9	712.0	715.1	716.1	716.1
5°	706.8	707.8	712.0	713.0	714.0
7.5°	701.6	703.7	707.8	708.9	709.9
10°	694.4	696.5	701.6	703.7	704.7
12.5°	685.1	687.2	693.4	696.5	697.5
15°	672.7	675.8	683.0	687.2	689.2
17.5°	660.3	663.4	670.6	676.8	678.9
20°	644.8	652.0	657.2	665.5	666.5
22.5°	629.3	633.4	642.7	651.0	655.1
25°	610.7	615.9	630.3	637.6	640.7
27.5°	591.1	598.3	609.7	621.0	625.2
30°	571.4	576.6	591.1	604.5	608.6
32.5°	549.7	557.0	572.5	585.9	592.1
35°	528.0	535.3	551.8	568.3	574.5
37.5°	504.3	512.5	529.1	548.7	557.0
40°	481.5	487.7	507.4	531.1	538.4
42.5°	457.8	465.0	485.7	511.5	519.8
45°	431.9	440.2	462.9	489.8	500.1
47.5°	407.1	415.4	440.2	467.1	479.5
50°	381.3	391.6	416.4	447.4	459.8
52.5°	356.5	365.8	393.7	425.7	437.1
55°	328.6	338.9	369.9	403.0	417.5
57.5°	305.9	313.1	347.2	381.3	395.8
60°	278.0	287.3	322.4	358.6	375.1
62.5°	248.0	263.5	299.7	336.9	353.4
65°	223.2	235.6	276.9	313.1	328.6
67.5°	197.4	210.8	251.1	289.3	306.9
70°	168.4	186.0	228.4	266.6	283.1
72.5°	142.6	161.2	204.6	241.8	259.4
75°	116.8	136.4	178.8	214.9	231.5
77.5°	92.0	113.7	155.0	182.9	193.2
80°	68.2	88.9	125.0	144.7	152.9
82.5°	47.5	65.1	92.0	102.3	104.4
85°	30.0	41.3	55.8	62.0	61.0
87.5°	13.4	16.5	20.7	22.7	21.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)