

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: P277282

Luminaire Tested: **22CZ2-24HE-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277282
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-5700K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2141.0 lumens
Efficiency: N/A
Efficacy: 118.1 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

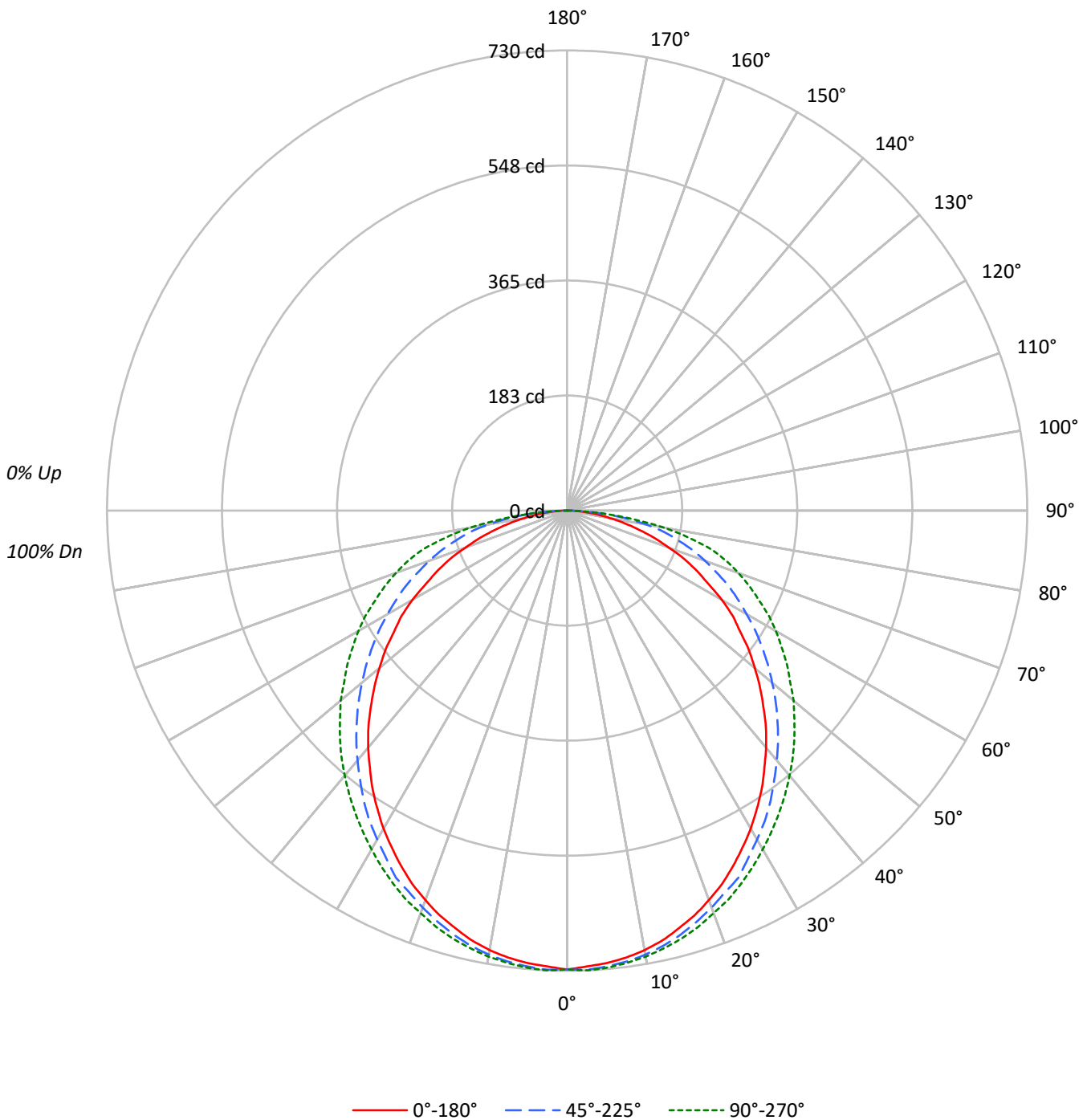
Input Watts (W): 18.135
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1959	1959	1959
5°	1947	1961	1967
10°	1935	1955	1963
15°	1911	1940	1958
20°	1883	1919	1946
25°	1849	1908	1939
30°	1810	1872	1928
35°	1768	1848	1924
40°	1724	1817	1928
45°	1676	1796	1940
50°	1627	1778	1963
55°	1572	1770	1997
60°	1525	1769	2058
65°	1449	1798	2133
70°	1351	1832	2271
75°	1237	1895	2454
80°	1077	1976	2416
85°	945	1757	1920



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.8	3.2
10°-20°	196.1	9.2
20°-30°	294.4	13.7
30°-40°	351.7	16.4
40°-50°	365.8	17.1
50°-60°	339.0	15.8
60°-70°	278.1	13.0
70°-80°	188.0	8.8
80°-90°	59.1	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°	559.3	26.1
0°-40°	911.1	42.6
0°-60°	1615.9	75.5
0°-90°	2141.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2141.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	728	728	728	728	728	
5°	721	722	726	727	728	68
15°	686	689	696	701	703	193
25°	623	628	643	650	653	287
35°	538	546	563	579	586	336
45°	440	449	472	499	510	340
55°	335	346	377	411	426	301
65°	228	240	282	319	335	225
75°	119	139	182	219	236	126
85°	31	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°	728.0	728.0	728.0	728.0	728.0
2.5°	723.8	725.9	729.0	730.1	730.1
5°	720.6	721.7	725.9	726.9	728.0
7.5°	715.3	717.4	721.7	722.7	723.8
10°	708.0	710.1	715.3	717.4	718.5
12.5°	698.5	700.6	706.9	710.1	711.1
15°	685.8	689.0	696.4	700.6	702.7
17.5°	673.2	676.4	683.7	690.1	692.2
20°	657.4	664.8	670.0	678.5	679.5
22.5°	641.6	645.8	655.3	663.7	667.9
25°	622.6	627.9	642.6	650.0	653.2
27.5°	602.6	610.0	621.6	633.2	637.4
30°	582.6	587.9	602.6	616.3	620.5
32.5°	560.5	567.8	583.6	597.3	603.7
35°	538.3	545.7	562.6	579.4	585.8
37.5°	514.1	522.5	539.4	559.4	567.8
40°	490.9	497.3	517.3	541.5	548.9
42.5°	466.7	474.1	495.2	521.5	529.9
45°	440.4	448.8	472.0	499.4	509.9
47.5°	415.1	423.5	448.8	476.2	488.8
50°	388.7	399.3	424.6	456.2	468.8
52.5°	363.5	372.9	401.4	434.0	445.6
55°	335.0	345.6	377.2	410.9	425.6
57.5°	311.8	319.2	354.0	388.7	403.5
60°	283.4	292.9	328.7	365.6	382.4
62.5°	252.8	268.6	305.5	343.4	360.3
65°	227.6	240.2	282.3	319.2	335.0
67.5°	201.2	214.9	256.0	295.0	312.9
70°	171.7	189.6	232.8	271.8	288.7
72.5°	145.4	164.3	208.6	246.5	264.4
75°	119.0	139.1	182.3	219.1	236.0
77.5°	93.8	115.9	158.0	186.5	197.0
80°	69.5	90.6	127.5	147.5	155.9
82.5°	48.5	66.4	93.8	104.3	106.4
85°	30.6	42.1	56.9	63.2	62.2
87.5°	13.7	16.9	21.1	23.2	22.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)