

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: P277220

Luminaire Tested: **22CZ2-20HE-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277220
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: 22CZ2-20HE-UNV-L82765-W2A1-U-6500K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2104.0 lumens
Efficiency: N/A
Efficacy: 130.0 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

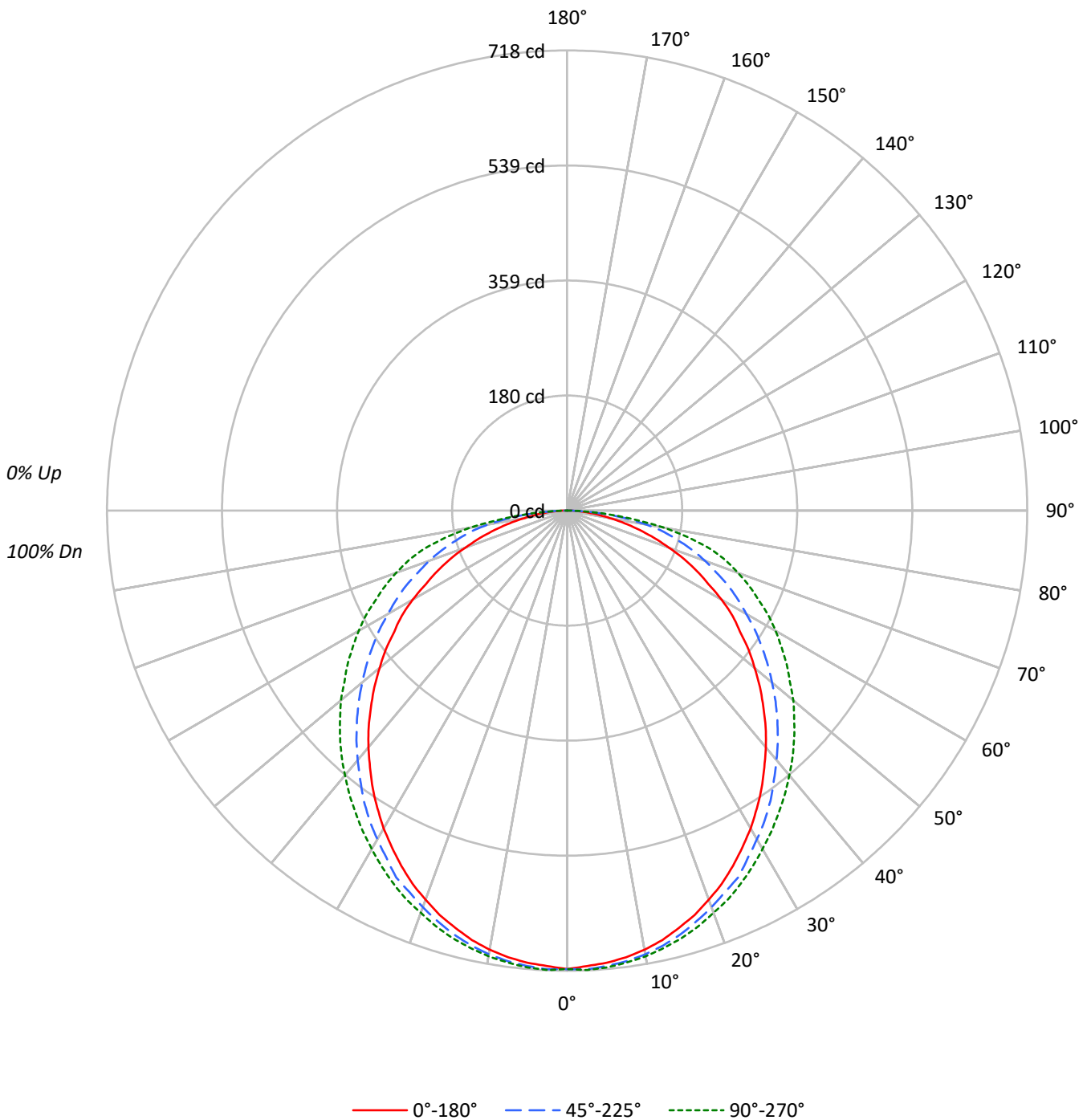
Input Watts (W): 16.182
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1925	1925	1925
5°	1913	1927	1932
10°	1901	1921	1929
15°	1878	1906	1924
20°	1850	1886	1912
25°	1817	1875	1906
30°	1779	1840	1895
35°	1738	1816	1891
40°	1695	1786	1895
45°	1647	1765	1907
50°	1599	1747	1929
55°	1544	1739	1962
60°	1499	1738	2023
65°	1424	1767	2096
70°	1328	1800	2232
75°	1216	1862	2411
80°	1058	1942	2374
85°	926	1726	1886



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.7	3.2
10°-20°	192.7	9.2
20°-30°	289.3	13.7
30°-40°	345.7	16.4
40°-50°	359.5	17.1
50°-60°	333.2	15.8
60°-70°	273.3	13.0
70°-80°	184.7	8.8
80°-90°	58.0	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°	549.7	26.1
0°-40°	895.3	42.6
0°-60°	1587.9	75.5
0°-90°	2104.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2104.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	715	715	715	715	715	
5°	708	709	713	714	715	67
15°	674	677	684	688	691	190
25°	612	617	632	639	642	282
35°	529	536	553	569	576	331
45°	433	441	464	491	501	334
55°	329	340	371	404	418	296
65°	224	236	278	314	329	221
75°	117	137	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°	715.4	715.4	715.4	715.4	715.4
2.5°	711.3	713.3	716.4	717.5	717.5
5°	708.2	709.2	713.3	714.4	715.4
7.5°	703.0	705.0	709.2	710.2	711.3
10°	695.7	697.8	703.0	705.0	706.1
12.5°	686.4	688.5	694.7	697.8	698.8
15°	674.0	677.1	684.3	688.5	690.6
17.5°	661.6	664.7	671.9	678.1	680.2
20°	646.0	653.3	658.5	666.7	667.8
22.5°	630.5	634.6	644.0	652.2	656.4
25°	611.9	617.0	631.5	638.8	641.9
27.5°	592.2	599.4	610.8	622.2	626.4
30°	572.5	577.7	592.2	605.7	609.8
32.5°	550.8	558.0	573.6	587.0	593.2
35°	529.0	536.3	552.9	569.4	575.6
37.5°	505.2	513.5	530.1	549.7	558.0
40°	482.5	488.7	508.3	532.1	539.4
42.5°	458.6	465.9	486.6	512.5	520.8
45°	432.8	441.0	463.8	490.7	501.1
47.5°	407.9	416.2	441.0	468.0	480.4
50°	382.0	392.4	417.2	448.3	460.7
52.5°	357.2	366.5	394.5	426.5	437.9
55°	329.2	339.6	370.6	403.8	418.3
57.5°	306.5	313.7	347.9	382.0	396.5
60°	278.5	287.8	323.0	359.3	375.8
62.5°	248.5	264.0	300.2	337.5	354.1
65°	223.6	236.1	277.5	313.7	329.2
67.5°	197.7	211.2	251.6	289.9	307.5
70°	168.8	186.4	228.8	267.1	283.7
72.5°	142.9	161.5	205.0	242.3	259.9
75°	117.0	136.7	179.1	215.3	231.9
77.5°	92.1	113.9	155.3	183.2	193.6
80°	68.3	89.0	125.3	144.9	153.2
82.5°	47.6	65.2	92.1	102.5	104.6
85°	30.0	41.4	55.9	62.1	61.1
87.5°	13.5	16.6	20.7	22.8	21.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)