

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: P277622

Luminaire Tested: **22CZ2-29HE-RDP-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277622
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-24)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-29HE-RDP-UNV-L92765-W2A1-U-3500K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1521.0 lumens
Efficiency: N/A
Efficacy: 72.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

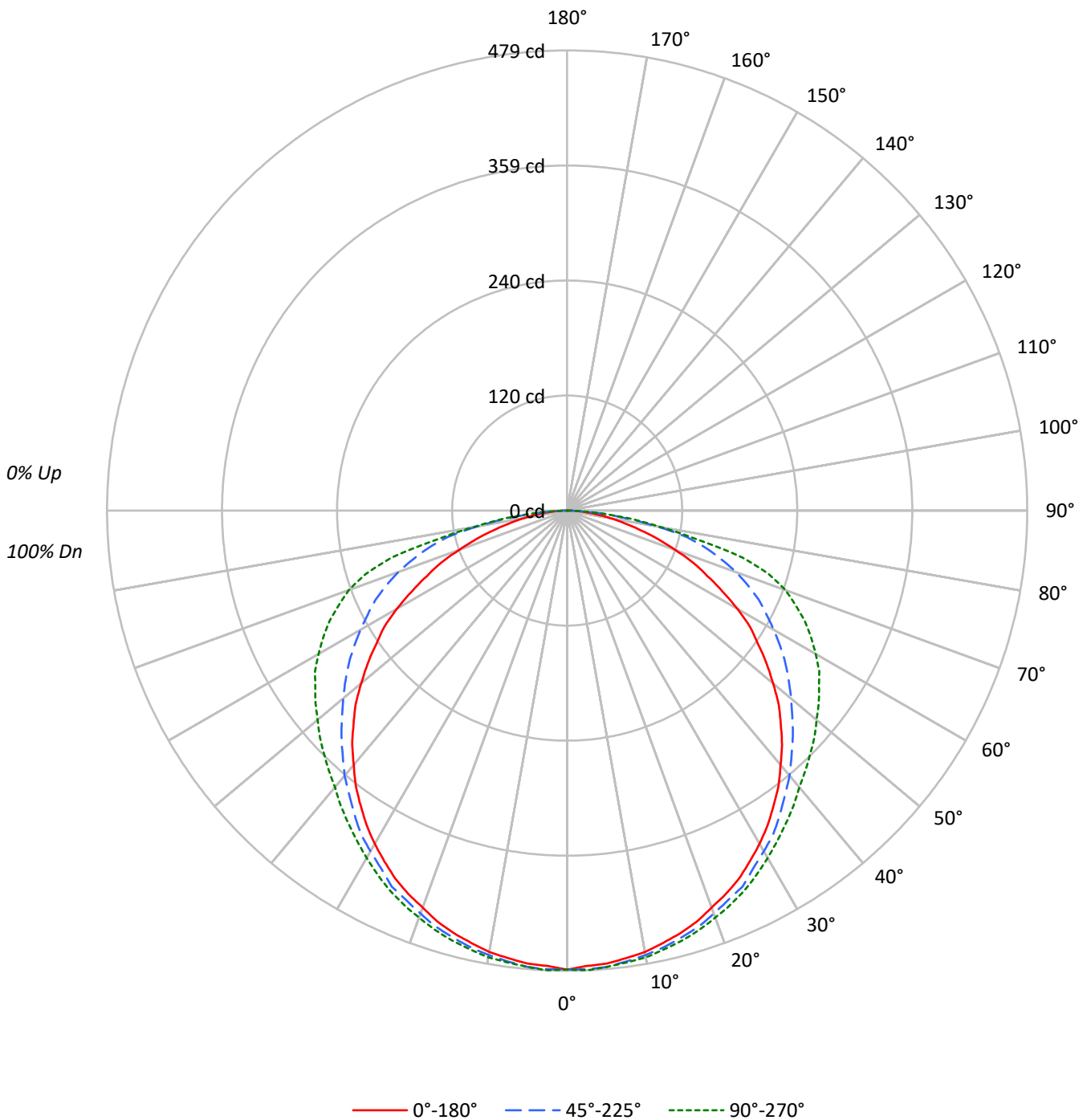
Input Watts (W): 20.925
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	96	92	96	92	89	92	89	86	88	86	84	82
2	97	88	81	75	95	86	80	74	83	77	72	80	75	71	76	72	69	67
3	88	77	68	61	86	75	67	61	72	65	60	70	64	59	67	62	58	55
4	80	68	59	51	78	66	58	51	64	56	50	61	55	50	59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35
7	63	49	40	33	61	48	39	33	47	39	33	45	38	33	44	37	33	31
8	59	45	36	30	57	44	35	30	43	35	29	41	34	29	40	34	29	27
9	55	41	32	27	53	40	32	27	39	32	26	38	31	26	37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1286	1286	1286
5°	1279	1288	1288
10°	1275	1284	1290
15°	1269	1281	1290
20°	1259	1278	1291
25°	1256	1282	1296
30°	1245	1272	1297
35°	1231	1268	1305
40°	1214	1266	1321
45°	1196	1265	1362
50°	1171	1274	1419
55°	1139	1302	1501
60°	1102	1337	1608
65°	1026	1403	1738
70°	942	1471	1902
75°	826	1547	1966
80°	711	1474	1543
85°	621	1071	1173



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.2	3.0
10°-20°	129.8	8.5
20°-30°	198.0	13.0
30°-40°	241.7	15.9
40°-50°	258.5	17.0
50°-60°	249.5	16.4
60°-70°	214.8	14.1
70°-80°	145.3	9.6
80°-90°	38.3	2.5
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°	372.9	24.5
0°-40°	614.7	40.4
0°-60°	1122.6	73.8
0°-90°	1521.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1521.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	478	478	478	478	478	
5°	473	474	477	477	477	45
15°	455	456	460	462	463	128
25°	423	425	432	434	436	195
35°	375	378	386	394	397	235
45°	314	320	332	349	358	243
55°	243	251	278	306	320	218
65°	161	177	220	255	273	160
75°	79	105	149	179	189	85
85°	20	28	35	36	38	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	477.8	477.8	477.8	477.8	477.8
2.5°	474.4	475.5	477.8	477.8	478.9
5°	473.3	474.4	476.7	476.7	476.7
7.5°	469.9	471.1	473.3	474.4	474.4
10°	466.6	467.7	469.9	471.1	472.2
12.5°	461.0	462.1	465.5	467.7	467.7
15°	455.4	456.5	459.9	462.1	463.2
17.5°	448.7	450.9	454.3	456.5	457.6
20°	439.7	442.0	446.4	449.8	450.9
22.5°	431.9	434.1	438.6	442.0	444.2
25°	422.9	425.2	431.9	434.1	436.4
27.5°	411.8	414.0	419.6	424.1	427.4
30°	400.6	402.8	409.5	415.1	417.4
32.5°	388.3	391.6	399.4	403.9	407.3
35°	374.8	378.2	386.0	393.9	397.2
37.5°	361.4	364.8	372.6	382.7	387.1
40°	345.7	350.2	360.3	373.7	376.0
42.5°	331.2	336.8	345.7	361.4	367.0
45°	314.4	320.0	332.3	349.1	358.0
47.5°	298.7	304.3	317.8	337.9	349.1
50°	279.7	287.6	304.3	327.8	339.0
52.5°	261.8	268.5	290.9	316.7	330.1
55°	242.8	250.6	277.5	305.5	320.0
57.5°	226.0	232.7	262.9	294.3	311.1
60°	204.8	213.7	248.4	282.0	298.7
62.5°	182.4	195.8	233.9	268.5	286.4
65°	161.1	176.8	220.4	255.1	273.0
67.5°	142.1	158.9	203.6	240.6	257.3
70°	119.7	141.0	186.9	222.7	241.7
72.5°	99.6	123.1	167.8	203.6	220.4
75°	79.4	105.2	148.8	179.0	189.1
77.5°	61.5	86.2	127.6	136.5	137.6
80°	45.9	68.3	95.1	96.2	99.6
82.5°	31.3	48.1	61.5	67.1	68.3
85°	20.1	28.0	34.7	35.8	38.0
87.5°	9.0	10.1	12.3	11.2	11.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)