

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: P277552

Luminaire Tested: **22CZ2-20HE-RDP-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277552
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: 22CZ2-20HE-RDP-UNV-L82765-W2A1-U-4500K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1369.0 lumens
Efficiency: N/A
Efficacy: 86.6 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

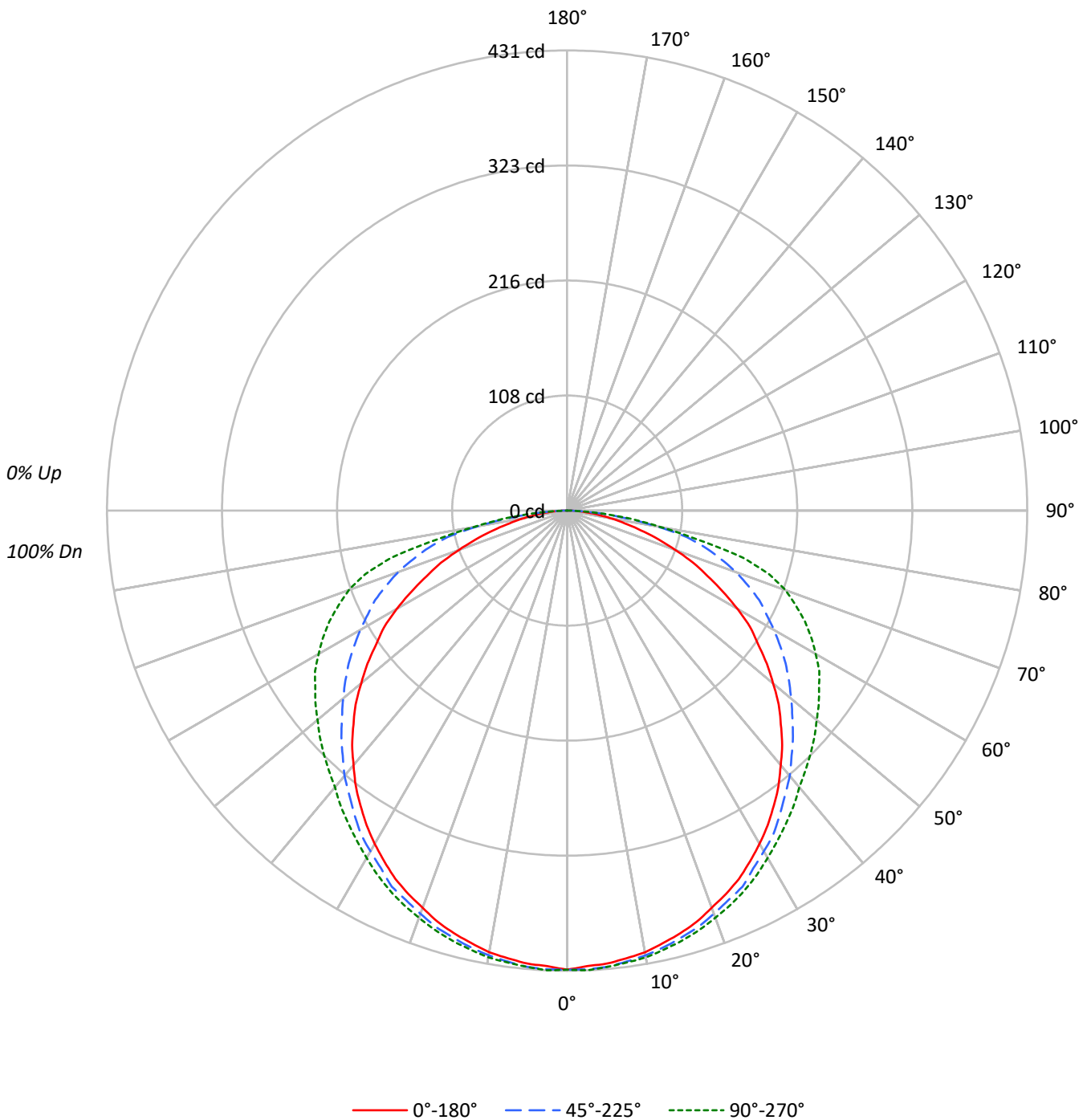
Input Watts (W): 15.81
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1157	1157	1157
5°	1151	1159	1159
10°	1148	1156	1161
15°	1142	1153	1161
20°	1133	1151	1162
25°	1130	1154	1166
30°	1120	1145	1167
35°	1108	1141	1174
40°	1093	1139	1189
45°	1077	1138	1227
50°	1054	1147	1277
55°	1025	1172	1351
60°	992	1203	1447
65°	923	1263	1564
70°	848	1323	1711
75°	743	1392	1770
80°	640	1327	1389
85°	559	963	1056



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.7	3.0
10°-20°	116.8	8.5
20°-30°	178.2	13.0
30°-40°	217.6	15.9
40°-50°	232.6	17.0
50°-60°	224.6	16.4
60°-70°	193.3	14.1
70°-80°	130.8	9.6
80°-90°	34.5	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°	335.7	24.5
0°-40°	553.2	40.4
0°-60°	1010.4	73.8
0°-90°	1369.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1369.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	430	430	430	430	430	
5°	426	427	429	429	429	40
15°	410	411	414	416	417	116
25°	381	383	389	391	393	175
35°	337	340	347	354	358	211
45°	283	288	299	314	322	218
55°	218	226	250	275	288	196
65°	145	159	198	230	246	144
75°	72	95	134	161	170	77
85°	18	25	31	32	34	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	430.0	430.0	430.0	430.0	430.0
2.5°	427.0	428.0	430.0	430.0	431.0
5°	426.0	427.0	429.0	429.0	429.0
7.5°	423.0	424.0	426.0	427.0	427.0
10°	420.0	421.0	423.0	424.0	425.0
12.5°	414.9	415.9	418.9	421.0	421.0
15°	409.9	410.9	413.9	415.9	416.9
17.5°	403.8	405.9	408.9	410.9	411.9
20°	395.8	397.8	401.8	404.8	405.9
22.5°	388.7	390.8	394.8	397.8	399.8
25°	380.7	382.7	388.7	390.8	392.8
27.5°	370.6	372.6	377.7	381.7	384.7
30°	360.5	362.6	368.6	373.6	375.6
32.5°	349.5	352.5	359.5	363.6	366.6
35°	337.4	340.4	347.4	354.5	357.5
37.5°	325.3	328.3	335.4	344.4	348.5
40°	311.2	315.2	324.3	336.4	338.4
42.5°	298.1	303.1	311.2	325.3	330.3
45°	283.0	288.0	299.1	314.2	322.3
47.5°	268.9	273.9	286.0	304.1	314.2
50°	251.8	258.8	273.9	295.1	305.1
52.5°	235.7	241.7	261.8	285.0	297.1
55°	218.5	225.6	249.8	274.9	288.0
57.5°	203.4	209.5	236.7	264.9	280.0
60°	184.3	192.4	223.6	253.8	268.9
62.5°	164.2	176.2	210.5	241.7	257.8
65°	145.0	159.1	198.4	229.6	245.7
67.5°	127.9	143.0	183.3	216.5	231.6
70°	107.8	126.9	168.2	200.4	217.5
72.5°	89.6	110.8	151.1	183.3	198.4
75°	71.5	94.7	133.9	161.1	170.2
77.5°	55.4	77.5	114.8	122.9	123.9
80°	41.3	61.4	85.6	86.6	89.6
82.5°	28.2	43.3	55.4	60.4	61.4
85°	18.1	25.2	31.2	32.2	34.2
87.5°	8.1	9.1	11.1	10.1	10.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)