

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: P277553

Luminaire Tested: **22CZ2-20HE-RDP-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277553
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-5000K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1387.0 lumens
Efficiency: N/A
Efficacy: 87.2 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

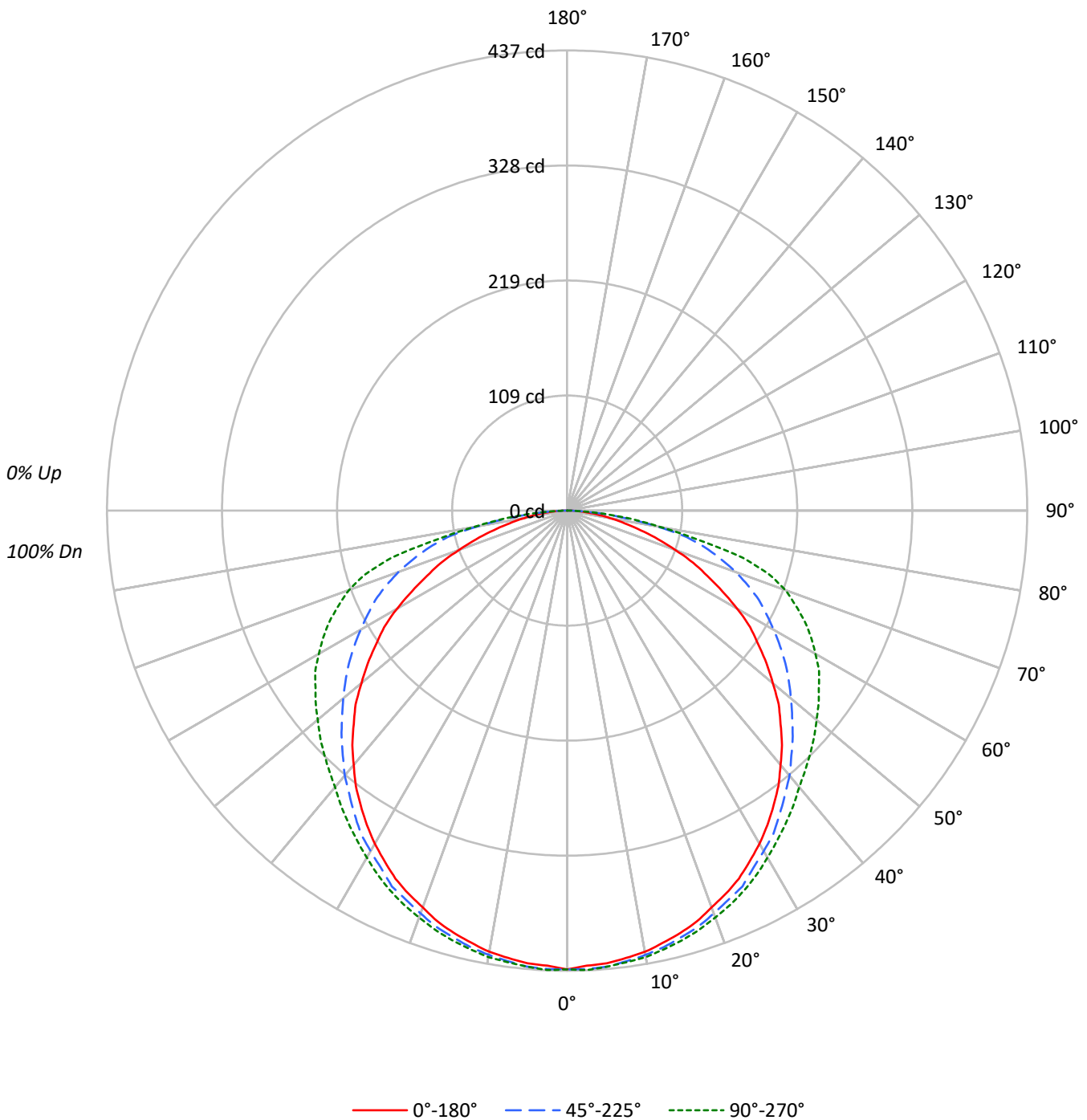
Input Watts (W): 15.903
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1172	1172	1172
5°	1166	1174	1174
10°	1163	1171	1177
15°	1157	1168	1177
20°	1148	1166	1178
25°	1145	1169	1181
30°	1135	1160	1183
35°	1123	1156	1190
40°	1108	1154	1204
45°	1091	1153	1243
50°	1068	1162	1294
55°	1039	1187	1369
60°	1005	1219	1466
65°	935	1280	1585
70°	859	1341	1734
75°	753	1411	1792
80°	648	1344	1407
85°	568	976	1071



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.2	3.0
10°-20°	118.3	8.5
20°-30°	180.5	13.0
30°-40°	220.4	15.9
40°-50°	235.7	17.0
50°-60°	227.5	16.4
60°-70°	195.8	14.1
70°-80°	132.5	9.6
80°-90°	35.0	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°	340.1	24.5
0°-40°	560.5	40.4
0°-60°	1023.7	73.8
0°-90°	1387.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1387.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	436	436	436	436	436	
5°	432	433	435	435	435	41
15°	415	416	419	421	422	117
25°	386	388	394	396	398	178
35°	342	345	352	359	362	214
45°	287	292	303	318	326	221
55°	221	229	253	279	292	198
65°	147	161	201	233	249	146
75°	72	96	136	163	172	78
85°	18	26	32	33	35	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	435.7	435.7	435.7	435.7	435.7
2.5°	432.6	433.6	435.7	435.7	436.7
5°	431.6	432.6	434.7	434.7	434.7
7.5°	428.5	429.6	431.6	432.6	432.6
10°	425.5	426.5	428.5	429.6	430.6
12.5°	420.4	421.4	424.5	426.5	426.5
15°	415.3	416.3	419.4	421.4	422.4
17.5°	409.2	411.2	414.3	416.3	417.3
20°	401.0	403.0	407.1	410.2	411.2
22.5°	393.8	395.9	400.0	403.0	405.1
25°	385.7	387.7	393.8	395.9	397.9
27.5°	375.5	377.5	382.6	386.7	389.8
30°	365.3	367.3	373.4	378.5	380.6
32.5°	354.1	357.1	364.3	368.3	371.4
35°	341.8	344.9	352.0	359.2	362.2
37.5°	329.6	332.6	339.8	349.0	353.0
40°	315.3	319.4	328.5	340.8	342.8
42.5°	302.0	307.1	315.3	329.6	334.7
45°	286.7	291.8	303.0	318.3	326.5
47.5°	272.4	277.5	289.8	308.1	318.3
50°	255.1	262.2	277.5	299.0	309.2
52.5°	238.8	244.9	265.3	288.8	301.0
55°	221.4	228.6	253.0	278.6	291.8
57.5°	206.1	212.2	239.8	268.3	283.7
60°	186.7	194.9	226.5	257.1	272.4
62.5°	166.3	178.6	213.2	244.9	261.2
65°	146.9	161.2	201.0	232.6	249.0
67.5°	129.6	144.9	185.7	219.4	234.7
70°	109.2	128.6	170.4	203.0	220.4
72.5°	90.8	112.2	153.0	185.7	201.0
75°	72.4	95.9	135.7	163.3	172.4
77.5°	56.1	78.6	116.3	124.5	125.5
80°	41.8	62.2	86.7	87.7	90.8
82.5°	28.6	43.9	56.1	61.2	62.2
85°	18.4	25.5	31.6	32.7	34.7
87.5°	8.2	9.2	11.2	10.2	10.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)