

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: P260281

Luminaire Tested: **22CZ-LD5-20-SQP-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P260281  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25713)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22CZ-LD5-20-SQP-UNV-L82765-W2A1-U-5000K  
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER  
WITH SQP LENS  
Light Source: (168) 80 CRI LEDS TUNED AT 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1392.0 lumens  
Efficiency: N/A  
Efficacy: 87.5 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

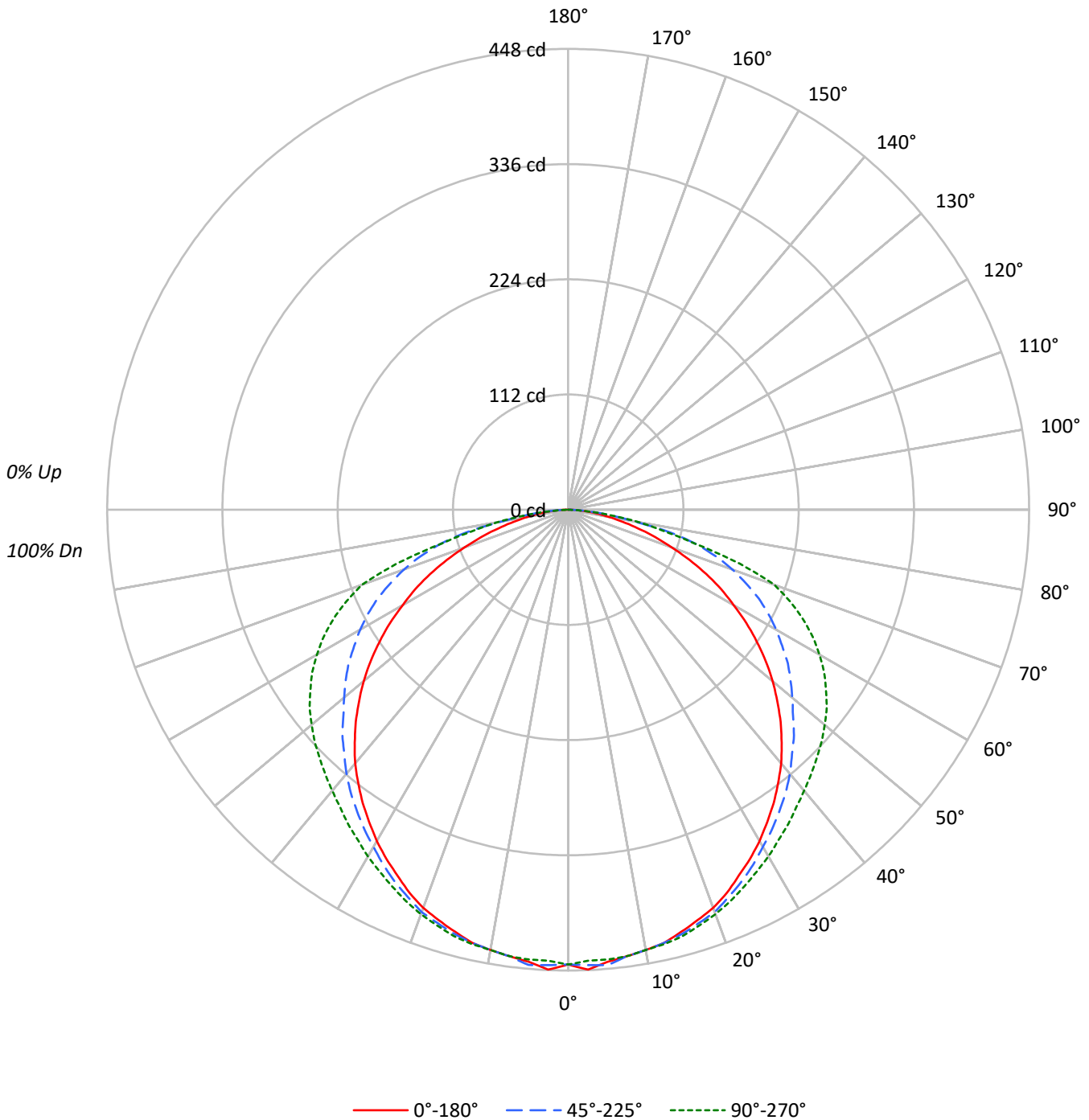
Input Watts (W): 15.903  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	99	95	105	101	97	93	97	93	90		93	90	87		89	87	85	83
2	98	89	82	76	95	87	81	75	84	78	73		80	76	71		77	73	70	68
3	89	78	69	62	86	76	68	62	73	66	61		70	64	59		68	63	58	56
4	81	68	59	52	79	67	58	52	64	57	51		62	56	50		60	54	50	47
5	74	61	52	45	72	60	51	44	58	50	44		56	49	43		54	48	43	41
6	68	55	45	39	66	54	45	39	52	44	38		50	43	38		48	42	37	35
7	63	49	40	34	62	49	40	34	47	39	34		45	39	33		44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30		42	35	30		40	34	29	28
9	55	41	33	27	54	41	33	27	39	32	27		38	32	27		37	31	27	25
10	51	38	30	24	50	37	30	24	36	29	24		35	29	24		35	28	24	22

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1190	1190	1190
5°	1192	1200	1186
10°	1188	1188	1188
15°	1183	1190	1196
20°	1180	1192	1198
25°	1165	1184	1200
30°	1156	1176	1209
35°	1144	1175	1225
40°	1131	1177	1253
45°	1111	1181	1300
50°	1086	1190	1362
55°	1050	1222	1435
60°	1001	1257	1518
65°	943	1301	1604
70°	842	1335	1676
75°	731	1337	1327
80°	620	989	1072
85°	534	667	602



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	42.0	3.0
10°-20°	120.6	8.7
20°-30°	183.7	13.2
30°-40°	224.8	16.1
40°-50°	241.9	17.4
50°-60°	234.3	16.8
60°-70°	198.5	14.3
70°-80°	120.0	8.6
80°-90°	26.3	1.9
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°	346.3	24.9
0°-40°	571.0	41.0
0°-60°	1047.2	75.2
0°-90°	1392.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1392.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	442	442	442	442	442	
5°	441	441	444	442	439	42
15°	425	426	427	428	429	120
25°	392	395	399	402	404	181
35°	348	350	358	368	373	218
45°	292	297	310	330	342	225
55°	224	234	260	291	306	200
65°	148	164	204	237	252	146
75°	70	95	129	131	128	76
85°	17	20	22	20	20	20
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	442.1	442.1	442.1	442.1	442.1
2.5°	447.5	446.5	443.2	441.1	438.9
5°	441.1	441.1	444.3	442.1	438.9
7.5°	437.8	437.8	437.8	443.2	437.8
10°	434.6	435.7	434.6	438.9	434.6
12.5°	431.3	431.3	431.3	432.4	432.4
15°	424.8	425.9	427.0	428.1	429.2
17.5°	418.4	419.4	421.6	422.7	423.8
20°	411.9	412.9	416.2	416.2	418.4
22.5°	403.2	403.2	407.5	408.6	411.9
25°	392.4	394.6	398.9	402.1	404.3
27.5°	382.7	384.8	389.2	393.5	396.7
30°	371.9	374.0	378.4	384.8	389.2
32.5°	360.0	362.1	368.6	376.2	380.5
35°	348.1	350.2	357.8	367.5	373.0
37.5°	335.1	338.4	347.0	357.8	364.3
40°	322.1	325.4	335.1	347.0	356.7
42.5°	307.0	311.3	322.1	338.4	349.2
45°	291.9	297.3	310.3	329.7	341.6
47.5°	275.7	281.1	296.2	321.1	334.0
50°	259.4	265.9	284.3	311.3	325.4
52.5°	242.1	248.6	272.4	301.6	316.7
55°	223.8	233.5	260.5	290.8	305.9
57.5°	205.4	216.2	246.5	278.9	295.1
60°	185.9	198.9	233.5	265.9	282.1
62.5°	167.6	181.6	219.4	251.9	268.1
65°	148.1	164.3	204.3	236.7	251.9
67.5°	127.6	148.1	187.0	218.4	233.5
70°	107.0	130.8	169.7	198.9	213.0
72.5°	88.6	113.5	150.3	175.1	175.1
75°	70.3	95.1	128.6	130.8	127.6
77.5°	54.1	77.8	100.5	91.9	94.0
80°	40.0	59.5	63.8	67.0	69.2
82.5°	27.0	40.0	41.1	43.2	43.2
85°	17.3	20.5	21.6	20.5	19.5
87.5°	7.6	8.6	6.5	4.3	3.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)