

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: P260282

Luminaire Tested: **22CZ-LD5-20-SQP-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P260282  
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-5500K  
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER  
WITH SQP LENS  
Light Source: (168) 80 CRI LEDS TUNED AT 5500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1406.0 lumens  
Efficiency: N/A  
Efficacy: 87.9 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

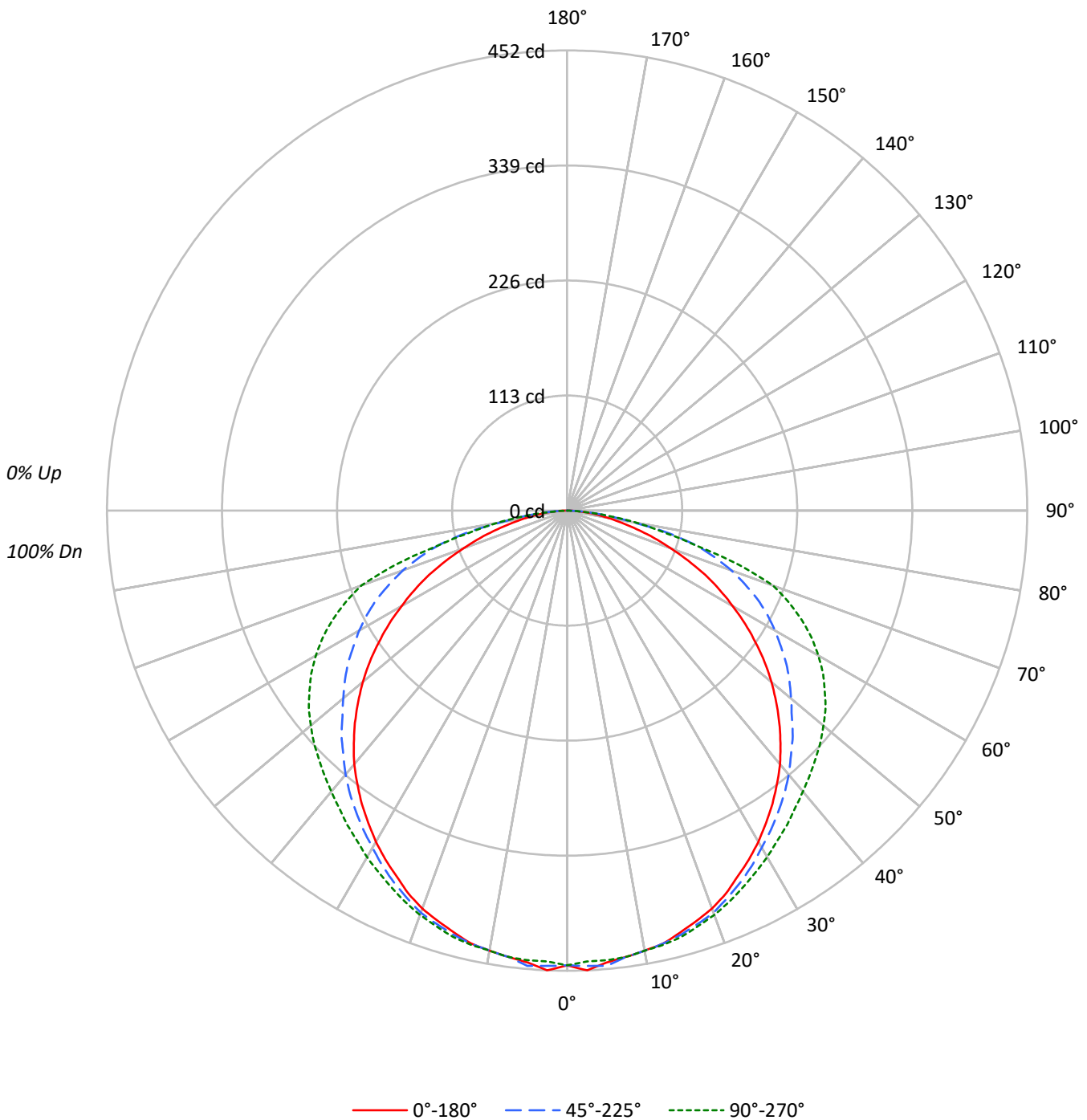
Input Watts (W): 15.996  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1202	1202	1202
5°	1203	1212	1197
10°	1199	1199	1199
15°	1195	1202	1208
20°	1191	1204	1210
25°	1177	1196	1213
30°	1167	1188	1221
35°	1155	1187	1237
40°	1143	1189	1266
45°	1122	1193	1313
50°	1097	1202	1376
55°	1060	1234	1450
60°	1011	1269	1534
65°	953	1314	1620
70°	851	1349	1692
75°	738	1351	1339
80°	626	998	1083
85°	540	673	608



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	42.4	3.0
10°-20°	121.8	8.7
20°-30°	185.6	13.2
30°-40°	227.1	16.1
40°-50°	244.3	17.4
50°-60°	236.6	16.8
60°-70°	200.5	14.3
70°-80°	121.2	8.6
80°-90°	26.6	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°	349.7	24.9
0°-40°	576.8	41.0
0°-60°	1057.7	75.2
0°-90°	1406.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1406.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	447	447	447	447	447	
5°	446	446	449	447	443	42
15°	429	430	431	432	434	121
25°	396	398	403	406	408	183
35°	352	354	361	371	377	220
45°	295	300	313	333	345	227
55°	226	236	263	294	309	202
65°	150	166	206	239	254	147
75°	71	96	130	132	129	76
85°	18	21	22	21	20	20
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	446.6	446.6	446.6	446.6	446.6
2.5°	452.0	451.0	447.7	445.5	443.3
5°	445.5	445.5	448.8	446.6	443.3
7.5°	442.2	442.2	442.2	447.7	442.2
10°	438.9	440.0	438.9	443.3	438.9
12.5°	435.7	435.7	435.7	436.8	436.8
15°	429.1	430.2	431.3	432.4	433.5
17.5°	422.6	423.7	425.8	426.9	428.0
20°	416.0	417.1	420.4	420.4	422.6
22.5°	407.3	407.3	411.6	412.7	416.0
25°	396.4	398.5	402.9	406.2	408.4
27.5°	386.5	388.7	393.1	397.4	400.7
30°	375.6	377.8	382.2	388.7	393.1
32.5°	363.6	365.8	372.3	380.0	384.3
35°	351.6	353.8	361.4	371.2	376.7
37.5°	338.5	341.8	350.5	361.4	368.0
40°	325.4	328.7	338.5	350.5	360.3
42.5°	310.1	314.5	325.4	341.8	352.7
45°	294.8	300.3	313.4	333.0	345.0
47.5°	278.4	283.9	299.2	324.3	337.4
50°	262.1	268.6	287.2	314.5	328.7
52.5°	244.6	251.1	275.2	304.6	319.9
55°	226.0	235.8	263.1	293.7	309.0
57.5°	207.5	218.4	249.0	281.7	298.1
60°	187.8	200.9	235.8	268.6	285.0
62.5°	169.2	183.4	221.7	254.4	270.8
65°	149.6	166.0	206.4	239.1	254.4
67.5°	128.8	149.6	188.9	220.6	235.8
70°	108.1	132.1	171.4	200.9	215.1
72.5°	89.5	114.6	151.8	176.9	176.9
75°	71.0	96.1	129.9	132.1	128.8
77.5°	54.6	78.6	101.5	92.8	95.0
80°	40.4	60.1	64.4	67.7	69.9
82.5°	27.3	40.4	41.5	43.7	43.7
85°	17.5	20.7	21.8	20.7	19.7
87.5°	7.6	8.7	6.6	4.4	3.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)