

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: P260278

Luminaire Tested: **22CZ-LD5-20-SQP-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P260278  
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-3500K  
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER WITH SQP LENS  
Light Source: (168) 80 CRI LEDS TUNED AT 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1321.0 lumens  
Efficiency: N/A  
Efficacy: 84.6 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

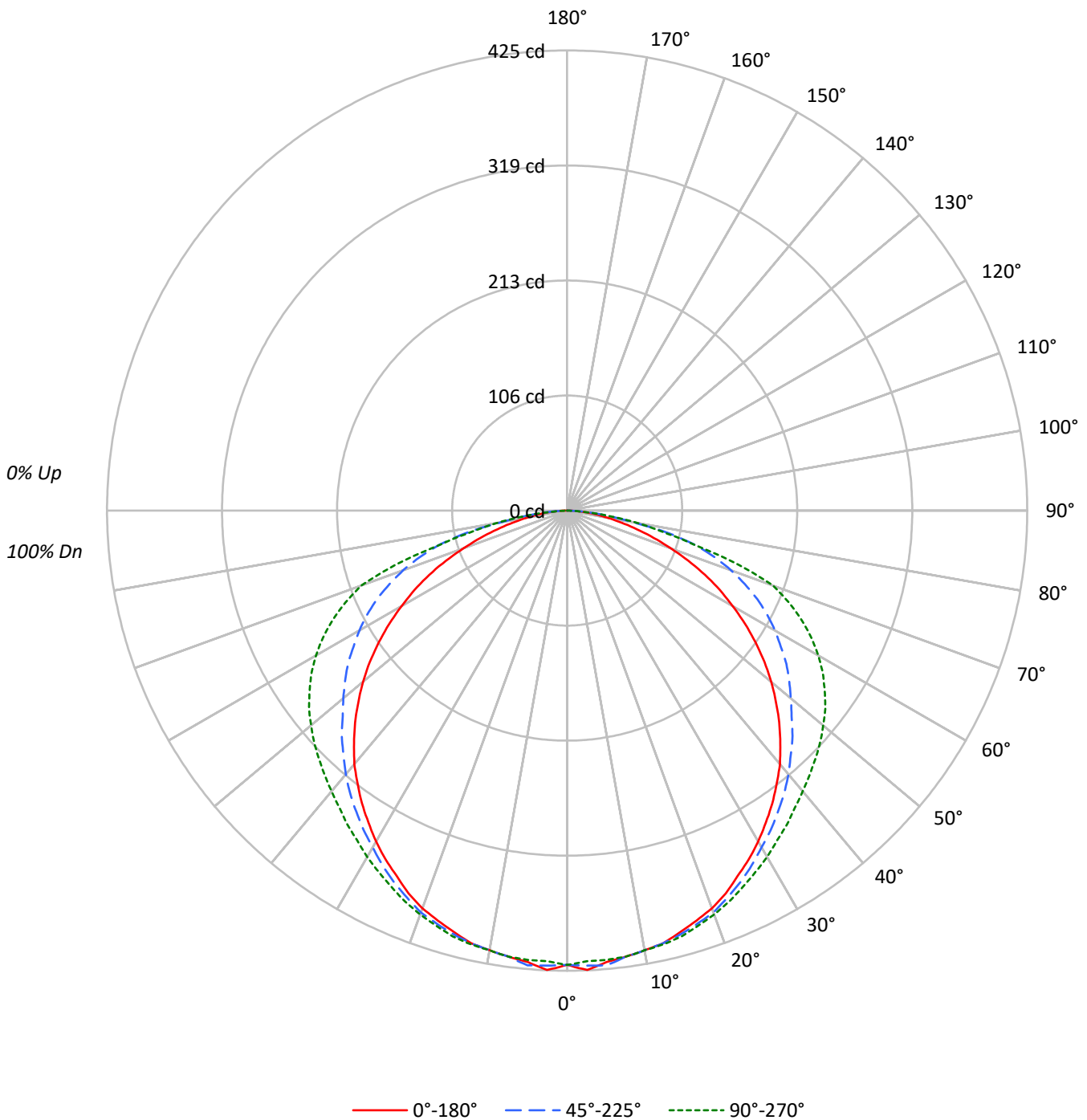
Input Watts (W): 15.624  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1129	1129	1129
5°	1131	1139	1125
10°	1127	1127	1127
15°	1123	1129	1135
20°	1119	1131	1137
25°	1106	1124	1139
30°	1097	1116	1148
35°	1085	1116	1163
40°	1074	1117	1189
45°	1054	1120	1234
50°	1031	1129	1293
55°	996	1160	1362
60°	950	1193	1441
65°	895	1235	1522
70°	799	1268	1590
75°	693	1269	1259
80°	589	938	1018
85°	506	633	571



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	39.8	3.0
10°-20°	114.4	8.7
20°-30°	174.3	13.2
30°-40°	213.3	16.1
40°-50°	229.5	17.4
50°-60°	222.4	16.8
60°-70°	188.3	14.3
70°-80°	113.9	8.6
80°-90°	25.0	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°	328.6	24.9
0°-40°	541.9	41.0
0°-60°	993.8	75.2
0°-90°	1321.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1321.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	420	420	420	420	420	
5°	419	419	422	420	416	40
15°	403	404	405	406	407	114
25°	372	374	378	382	384	172
35°	330	332	340	349	354	207
45°	277	282	294	313	324	213
55°	212	222	247	276	290	190
65°	140	156	194	225	239	138
75°	67	90	122	124	121	72
85°	16	20	20	20	18	19
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	419.6	419.6	419.6	419.6	419.6
2.5°	424.7	423.7	420.6	418.6	416.5
5°	418.6	418.6	421.6	419.6	416.5
7.5°	415.5	415.5	415.5	420.6	415.5
10°	412.4	413.4	412.4	416.5	412.4
12.5°	409.3	409.3	409.3	410.4	410.4
15°	403.2	404.2	405.2	406.2	407.3
17.5°	397.0	398.0	400.1	401.1	402.1
20°	390.9	391.9	395.0	395.0	397.0
22.5°	382.7	382.7	386.8	387.8	390.9
25°	372.4	374.4	378.5	381.6	383.7
27.5°	363.2	365.2	369.3	373.4	376.5
30°	352.9	355.0	359.1	365.2	369.3
32.5°	341.6	343.7	349.8	357.0	361.1
35°	330.3	332.4	339.6	348.8	353.9
37.5°	318.0	321.1	329.3	339.6	345.7
40°	305.7	308.8	318.0	329.3	338.5
42.5°	291.4	295.5	305.7	321.1	331.4
45°	277.0	282.1	294.4	312.9	324.2
47.5°	261.6	266.7	281.1	304.7	317.0
50°	246.2	252.4	269.8	295.5	308.8
52.5°	229.8	236.0	258.5	286.2	300.6
55°	212.4	221.6	247.2	276.0	290.3
57.5°	194.9	205.2	233.9	264.7	280.1
60°	176.5	188.8	221.6	252.4	267.8
62.5°	159.0	172.3	208.3	239.0	254.4
65°	140.5	155.9	193.9	224.7	239.0
67.5°	121.1	140.5	177.5	207.2	221.6
70°	101.6	124.1	161.1	188.8	202.1
72.5°	84.1	107.7	142.6	166.2	166.2
75°	66.7	90.3	122.1	124.1	121.1
77.5°	51.3	73.9	95.4	87.2	89.3
80°	38.0	56.4	60.5	63.6	65.7
82.5°	25.6	38.0	39.0	41.0	41.0
85°	16.4	19.5	20.5	19.5	18.5
87.5°	7.2	8.2	6.2	4.1	3.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)