

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: P260277

Luminaire Tested: **22CZ-LD5-20-SQP-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P260277  
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-3000K  
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER WITH SQP LENS  
Light Source: (168) 80 CRI LEDS TUNED AT 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1276.0 lumens  
Efficiency: N/A  
Efficacy: 82.7 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

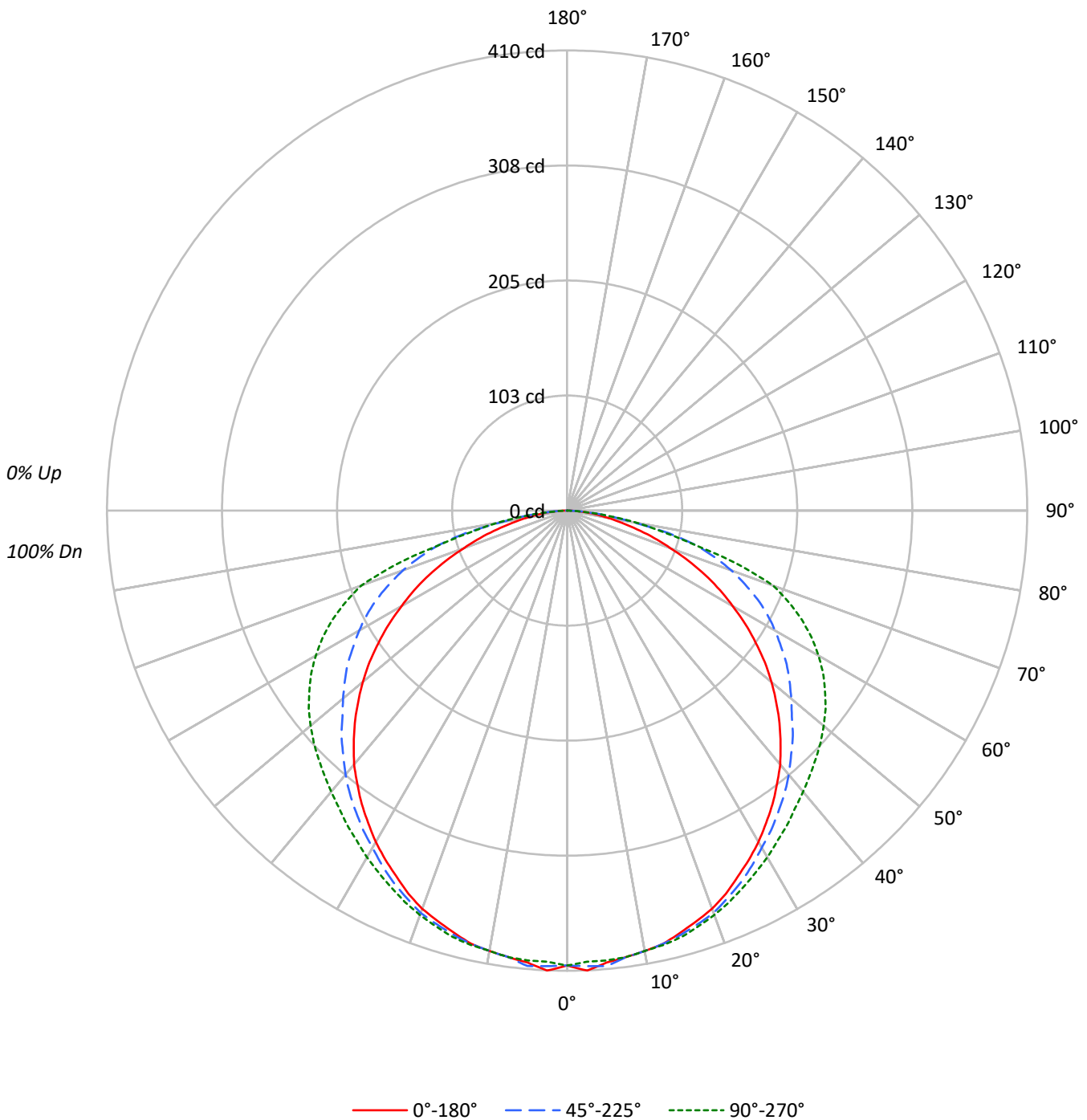
Input Watts (W): 15.438  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1091	1091	1091
5°	1092	1100	1087
10°	1089	1089	1089
15°	1085	1090	1096
20°	1081	1092	1098
25°	1068	1086	1100
30°	1059	1078	1108
35°	1048	1078	1123
40°	1037	1079	1149
45°	1018	1082	1192
50°	996	1091	1249
55°	962	1120	1316
60°	917	1152	1392
65°	865	1193	1470
70°	772	1224	1536
75°	670	1226	1215
80°	569	907	982
85°	491	611	550



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	38.5	3.0
10°-20°	110.5	8.7
20°-30°	168.4	13.2
30°-40°	206.1	16.1
40°-50°	221.7	17.4
50°-60°	214.8	16.8
60°-70°	181.9	14.3
70°-80°	110.0	8.6
80°-90°	24.2	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°	317.4	24.9
0°-40°	523.5	41.0
0°-60°	959.9	75.2
0°-90°	1276.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1276.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	405	405	405	405	405	
5°	404	404	407	405	402	38
15°	389	390	391	392	393	110
25°	360	362	366	369	371	166
35°	319	321	328	337	342	200
45°	268	272	284	302	313	206
55°	205	214	239	267	280	183
65°	136	151	187	217	231	134
75°	64	87	118	120	117	69
85°	16	19	20	19	18	18
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	405.3	405.3	405.3	405.3	405.3
2.5°	410.2	409.3	406.3	404.3	402.3
5°	404.3	404.3	407.3	405.3	402.3
7.5°	401.3	401.3	401.3	406.3	401.3
10°	398.4	399.3	398.4	402.3	398.4
12.5°	395.4	395.4	395.4	396.4	396.4
15°	389.4	390.4	391.4	392.4	393.4
17.5°	383.5	384.5	386.5	387.5	388.4
20°	377.5	378.5	381.5	381.5	383.5
22.5°	369.6	369.6	373.6	374.6	377.5
25°	359.7	361.7	365.7	368.6	370.6
27.5°	350.8	352.8	356.7	360.7	363.7
30°	340.9	342.9	346.8	352.8	356.7
32.5°	330.0	332.0	337.9	344.8	348.8
35°	319.1	321.1	328.0	336.9	341.9
37.5°	307.2	310.2	318.1	328.0	333.9
40°	295.3	298.3	307.2	318.1	327.0
42.5°	281.4	285.4	295.3	310.2	320.1
45°	267.6	272.5	284.4	302.2	313.1
47.5°	252.7	257.6	271.5	294.3	306.2
50°	237.8	243.8	260.6	285.4	298.3
52.5°	222.0	227.9	249.7	276.5	290.3
55°	205.1	214.0	238.8	266.6	280.4
57.5°	188.3	198.2	225.9	255.7	270.5
60°	170.4	182.3	214.0	243.8	258.6
62.5°	153.6	166.5	201.2	230.9	245.8
65°	135.8	150.6	187.3	217.0	230.9
67.5°	116.9	135.8	171.4	200.2	214.0
70°	98.1	119.9	155.6	182.3	195.2
72.5°	81.3	104.0	137.7	160.5	160.5
75°	64.4	87.2	117.9	119.9	116.9
77.5°	49.5	71.3	92.2	84.2	86.2
80°	36.7	54.5	58.5	61.4	63.4
82.5°	24.8	36.7	37.7	39.6	39.6
85°	15.9	18.8	19.8	18.8	17.8
87.5°	6.9	7.9	5.9	4.0	3.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)