

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: P260293

Luminaire Tested: **22CZ-LD5-24-SQP-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P260293  
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-LD5-24-SQP-UNV-L82765-W2A1-U-6500K  
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER WITH SQP LENS  
Light Source: (168) 80 CRI LEDS TUNED AT 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1594.0 lumens  
Efficiency: N/A  
Efficacy: 87.0 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

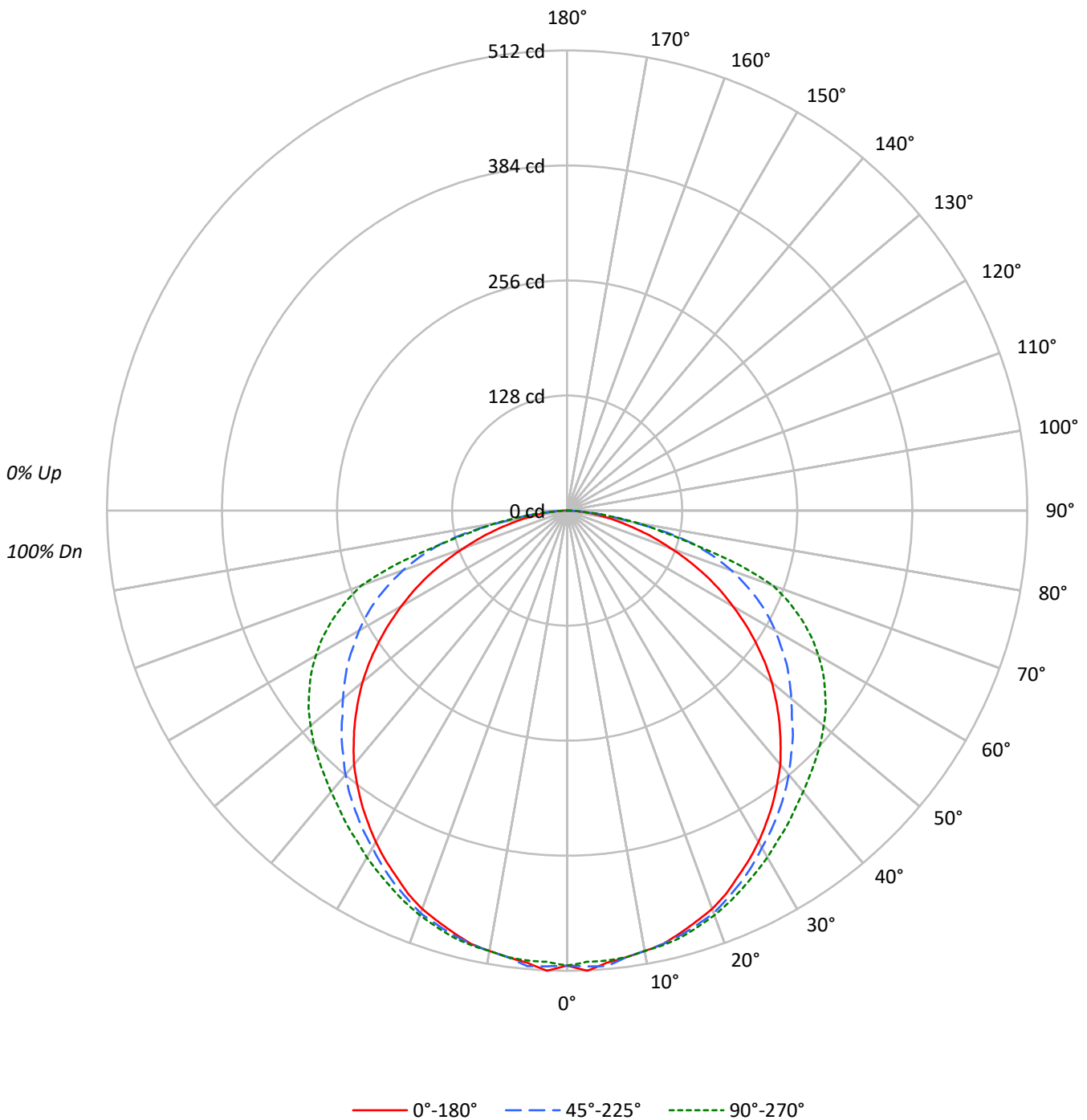
Input Watts (W): 18.321  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1362	1362	1362
5°	1364	1374	1358
10°	1360	1360	1360
15°	1355	1362	1369
20°	1351	1365	1372
25°	1334	1356	1375
30°	1323	1346	1385
35°	1309	1346	1403
40°	1296	1348	1435
45°	1272	1352	1489
50°	1244	1363	1560
55°	1202	1399	1643
60°	1146	1439	1739
65°	1080	1490	1836
70°	965	1529	1919
75°	837	1531	1519
80°	710	1131	1227
85°	611	766	689



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	48.1	3.0
10°-20°	138.1	8.7
20°-30°	210.4	13.2
30°-40°	257.4	16.1
40°-50°	277.0	17.4
50°-60°	268.3	16.8
60°-70°	227.3	14.3
70°-80°	137.4	8.6
80°-90°	30.2	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°	396.5	24.9
0°-40°	653.9	41.0
0°-60°	1199.2	75.2
0°-90°	1594.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1594.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	506	506	506	506	506	
5°	505	505	509	506	503	48
15°	486	488	489	490	491	137
25°	449	452	457	460	463	207
35°	399	401	410	421	427	249
45°	334	340	355	378	391	258
55°	256	267	298	333	350	229
65°	170	188	234	271	288	167
75°	80	109	147	150	146	86
85°	20	24	25	24	22	22
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	506.3	506.3	506.3	506.3	506.3
2.5°	512.5	511.2	507.5	505.1	502.6
5°	505.1	505.1	508.8	506.3	502.6
7.5°	501.3	501.3	501.3	507.5	501.3
10°	497.6	498.9	497.6	502.6	497.6
12.5°	493.9	493.9	493.9	495.2	495.2
15°	486.5	487.7	489.0	490.2	491.4
17.5°	479.1	480.3	482.8	484.0	485.3
20°	471.6	472.9	476.6	476.6	479.1
22.5°	461.7	461.7	466.7	467.9	471.6
25°	449.4	451.8	456.8	460.5	463.0
27.5°	438.2	440.7	445.6	450.6	454.3
30°	425.8	428.3	433.3	440.7	445.6
32.5°	412.2	414.7	422.1	430.8	435.7
35°	398.6	401.1	409.7	420.9	427.1
37.5°	383.7	387.5	397.4	409.7	417.2
40°	368.9	372.6	383.7	397.4	408.5
42.5°	351.6	356.5	368.9	387.5	399.8
45°	334.2	340.4	355.3	377.6	391.2
47.5°	315.7	321.9	339.2	367.7	382.5
50°	297.1	304.5	325.6	356.5	372.6
52.5°	277.3	284.7	311.9	345.4	362.7
55°	256.2	267.4	298.3	333.0	350.3
57.5°	235.2	247.6	282.2	319.4	337.9
60°	212.9	227.8	267.4	304.5	323.1
62.5°	191.9	208.0	251.3	288.4	307.0
65°	169.6	188.2	234.0	271.1	288.4
67.5°	146.1	169.6	214.2	250.1	267.4
70°	122.6	149.8	194.3	227.8	243.9
72.5°	101.5	130.0	172.1	200.5	200.5
75°	80.5	108.9	147.3	149.8	146.1
77.5°	61.9	89.1	115.1	105.2	107.7
80°	45.8	68.1	73.0	76.7	79.2
82.5°	30.9	45.8	47.0	49.5	49.5
85°	19.8	23.5	24.8	23.5	22.3
87.5°	8.7	9.9	7.4	5.0	3.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)