

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: P277611

Luminaire Tested: **22CZ2-24HE-RDP-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P277611  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-24)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22CZ2-24HE-RDP-UNV-L92765-W2A1-U-2700K  
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RDP LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1191.0 lumens  
Efficiency: N/A  
Efficacy: 67.8 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.41  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

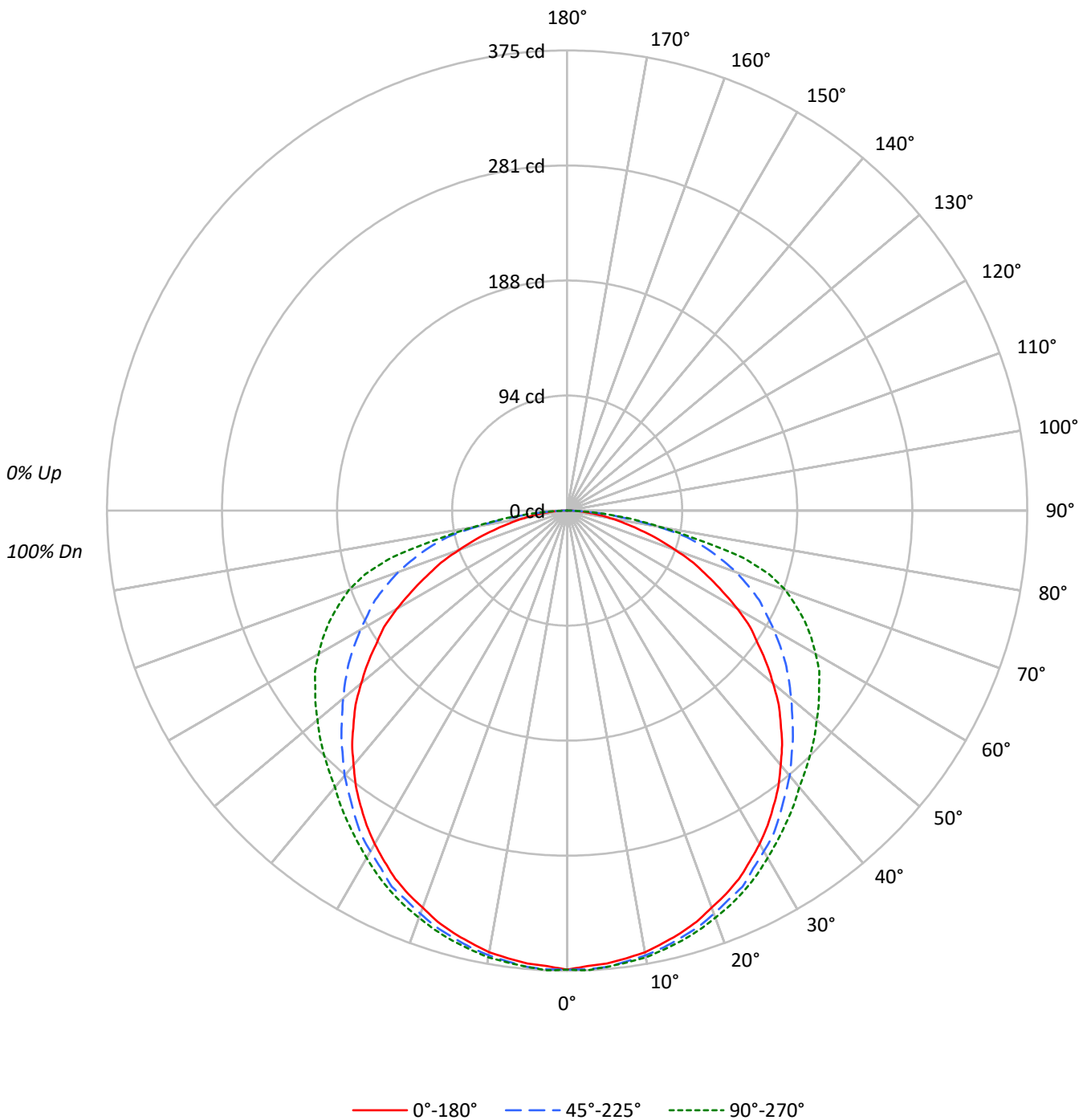
Input Watts (W): 17.577  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P277611

CATALOG NUMBER: 22CZ2-24HE-RDP-UNV-L92765-W2A1-U-2700K

### Luminous Intensity Polar Plot





TEST NUMBER: P277611

CATALOG NUMBER: 22CZ2-24HE-RDP-UNV-L92765-W2A1-U-2700K

**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	98	94	105	100	96	92	96	92	89	92	89	86	88	86	84	82
2	97	88	81	75	95	86	80	74	83	77	72	80	75	71	76	72	69	67
3	88	77	68	61	86	75	67	61	72	65	60	70	64	59	67	62	58	55
4	80	68	59	51	78	66	58	51	64	56	50	61	55	50	59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35
7	63	49	40	33	61	48	39	33	47	39	33	45	38	33	44	37	33	31
8	59	45	36	30	57	44	35	30	43	35	29	41	34	29	40	34	29	27
9	55	41	32	27	53	40	32	27	39	32	26	38	31	26	37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22

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

	0°	45°	90°
0°	1007	1007	1007
5°	1001	1008	1008
10°	998	1006	1010
15°	993	1003	1010
20°	986	1001	1011
25°	983	1004	1015
30°	975	997	1015
35°	964	993	1022
40°	951	991	1034
45°	937	990	1067
50°	917	998	1111
55°	892	1019	1176
60°	863	1047	1259
65°	804	1099	1361
70°	737	1151	1489
75°	647	1211	1540
80°	556	1155	1209
85°	488	840	920



TEST NUMBER: P277611

CATALOG NUMBER: 22CZ2-24HE-RDP-UNV-L92765-W2A1-U-2700K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	35.4	3.0
10°-20°	101.6	8.5
20°-30°	155.0	13.0
30°-40°	189.3	15.9
40°-50°	202.4	17.0
50°-60°	195.3	16.4
60°-70°	168.2	14.1
70°-80°	113.8	9.6
80°-90°	30.0	2.5
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°	292.0	24.5
0°-40°	481.3	40.4
0°-60°	879.0	73.8
0°-90°	1191.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1191.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	374	374	374	374	374	
5°	371	372	373	373	373	35
15°	357	358	360	362	363	101
25°	331	333	338	340	342	152
35°	294	296	302	308	311	184
45°	246	251	260	273	280	190
55°	190	196	217	239	251	170
65°	126	138	173	200	214	125
75°	62	82	116	140	148	67
85°	16	22	27	28	30	18
90°	0	0	0	0	0	



TEST NUMBER: P277611

CATALOG NUMBER: 22CZ2-24HE-RDP-UNV-L92765-W2A1-U-2700K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	374.1	374.1	374.1	374.1	374.1
2.5°	371.5	372.4	374.1	374.1	375.0
5°	370.6	371.5	373.2	373.2	373.2
7.5°	368.0	368.9	370.6	371.5	371.5
10°	365.4	366.2	368.0	368.9	369.7
12.5°	361.0	361.8	364.5	366.2	366.2
15°	356.6	357.5	360.1	361.8	362.7
17.5°	351.3	353.1	355.7	357.5	358.3
20°	344.3	346.1	349.6	352.2	353.1
22.5°	338.2	339.9	343.4	346.1	347.8
25°	331.2	332.9	338.2	339.9	341.7
27.5°	322.4	324.2	328.6	332.1	334.7
30°	313.7	315.4	320.7	325.0	326.8
32.5°	304.0	306.7	312.8	316.3	318.9
35°	293.5	296.1	302.3	308.4	311.0
37.5°	283.0	285.6	291.8	299.6	303.1
40°	270.7	274.2	282.1	292.6	294.4
42.5°	259.3	263.7	270.7	283.0	287.4
45°	246.2	250.6	260.2	273.4	280.4
47.5°	233.9	238.3	248.8	264.6	273.4
50°	219.0	225.2	238.3	256.7	265.5
52.5°	205.0	210.3	227.8	247.9	258.5
55°	190.1	196.3	217.3	239.2	250.6
57.5°	177.0	182.2	205.9	230.4	243.6
60°	160.3	167.3	194.5	220.8	233.9
62.5°	142.8	153.3	183.1	210.3	224.3
65°	126.2	138.4	172.6	199.8	213.8
67.5°	111.3	124.4	159.5	188.4	201.5
70°	93.7	110.4	146.3	174.4	189.2
72.5°	78.0	96.4	131.4	159.5	172.6
75°	62.2	82.4	116.5	140.2	148.1
77.5°	48.2	67.5	99.9	106.9	107.8
80°	35.9	53.4	74.5	75.3	78.0
82.5°	24.5	37.7	48.2	52.6	53.4
85°	15.8	21.9	27.2	28.0	29.8
87.5°	7.0	7.9	9.6	8.8	8.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)