

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: P277556

Luminaire Tested: **22CZ2-20HE-RDP-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P277556  
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: 22CZ2-20HE-RDP-UNV-L82765-W2A1-U-6500K  
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RDP LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1408.0 lumens  
Efficiency: N/A  
Efficacy: 87.0 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

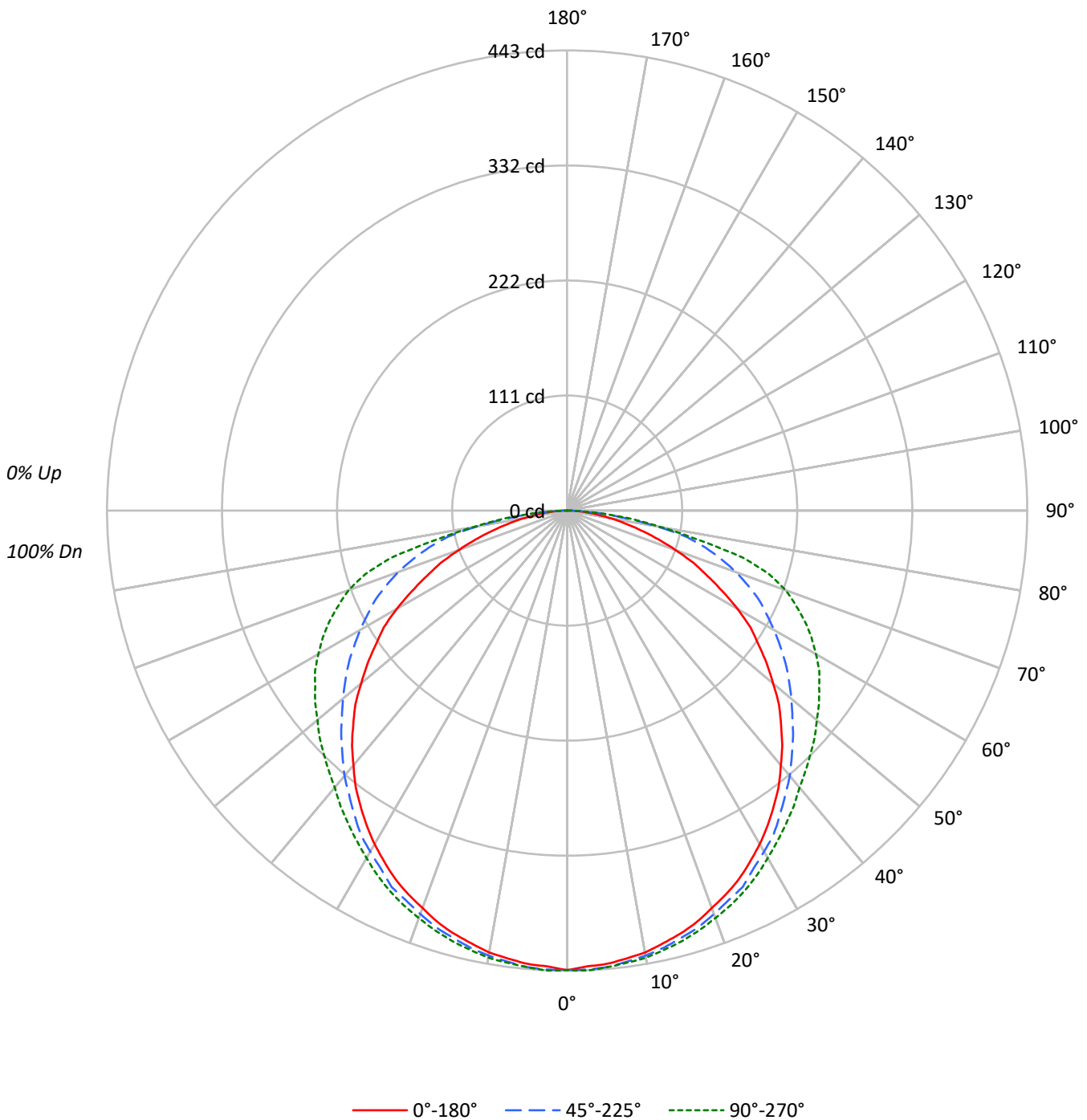
Input Watts (W): 16.182  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	1190	1190	1190
5°	1183	1192	1192
10°	1180	1189	1194
15°	1175	1186	1195
20°	1166	1184	1195
25°	1162	1187	1200
30°	1152	1178	1200
35°	1140	1174	1208
40°	1124	1172	1222
45°	1108	1171	1261
50°	1084	1179	1314
55°	1055	1205	1390
60°	1020	1237	1489
65°	950	1299	1609
70°	872	1361	1760
75°	764	1433	1820
80°	659	1364	1429
85°	574	991	1087



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	41.8	3.0
10°-20°	120.1	8.5
20°-30°	183.3	13.0
30°-40°	223.8	15.9
40°-50°	239.3	17.0
50°-60°	230.9	16.4
60°-70°	198.8	14.1
70°-80°	134.5	9.6
80°-90°	35.5	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°	345.2	24.5
0°-40°	569.0	40.4
0°-60°	1039.2	73.8
0°-90°	1408.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1408.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	442	442	442	442	442	
5°	438	439	441	441	441	42
15°	422	423	426	428	429	119
25°	392	394	400	402	404	180
35°	347	350	357	365	368	217
45°	291	296	308	323	331	225
55°	225	232	257	283	296	201
65°	149	164	204	236	253	148
75°	74	97	138	166	175	79
85°	19	26	32	33	35	21
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	442.3	442.3	442.3	442.3	442.3
2.5°	439.2	440.2	442.3	442.3	443.3
5°	438.1	439.2	441.2	441.2	441.2
7.5°	435.0	436.1	438.1	439.2	439.2
10°	431.9	433.0	435.0	436.1	437.1
12.5°	426.7	427.8	430.9	433.0	433.0
15°	421.6	422.6	425.7	427.8	428.8
17.5°	415.3	417.4	420.5	422.6	423.6
20°	407.1	409.1	413.3	416.4	417.4
22.5°	399.8	401.9	406.0	409.1	411.2
25°	391.5	393.6	399.8	401.9	404.0
27.5°	381.2	383.2	388.4	392.6	395.7
30°	370.8	372.9	379.1	384.3	386.3
32.5°	359.4	362.5	369.8	373.9	377.0
35°	347.0	350.1	357.3	364.6	367.7
37.5°	334.6	337.7	344.9	354.2	358.4
40°	320.1	324.2	333.5	345.9	348.0
42.5°	306.6	311.8	320.1	334.6	339.7
45°	291.1	296.2	307.6	323.2	331.4
47.5°	276.6	281.7	294.2	312.8	323.2
50°	258.9	266.2	281.7	303.5	313.8
52.5°	242.4	248.6	269.3	293.1	305.6
55°	224.8	232.0	256.9	282.8	296.2
57.5°	209.2	215.4	243.4	272.4	287.9
60°	189.5	197.8	229.9	261.0	276.6
62.5°	168.8	181.3	216.5	248.6	265.2
65°	149.2	163.7	204.0	236.2	252.7
67.5°	131.5	147.1	188.5	222.7	238.2
70°	110.8	130.5	173.0	206.1	223.7
72.5°	92.2	113.9	155.4	188.5	204.0
75°	73.5	97.4	137.8	165.7	175.0
77.5°	57.0	79.8	118.1	126.4	127.4
80°	42.5	63.2	88.0	89.1	92.2
82.5°	29.0	44.5	57.0	62.1	63.2
85°	18.6	25.9	32.1	33.1	35.2
87.5°	8.3	9.3	11.4	10.4	10.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)