

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: P277621

Luminaire Tested: **22CZ2-29HE-RDP-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P277621  
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: 22CZ2-29HE-RDP-UNV-L92765-W2A1-U-3000K  
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RDP LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1448.0 lumens  
Efficiency: N/A  
Efficacy: 70.1 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

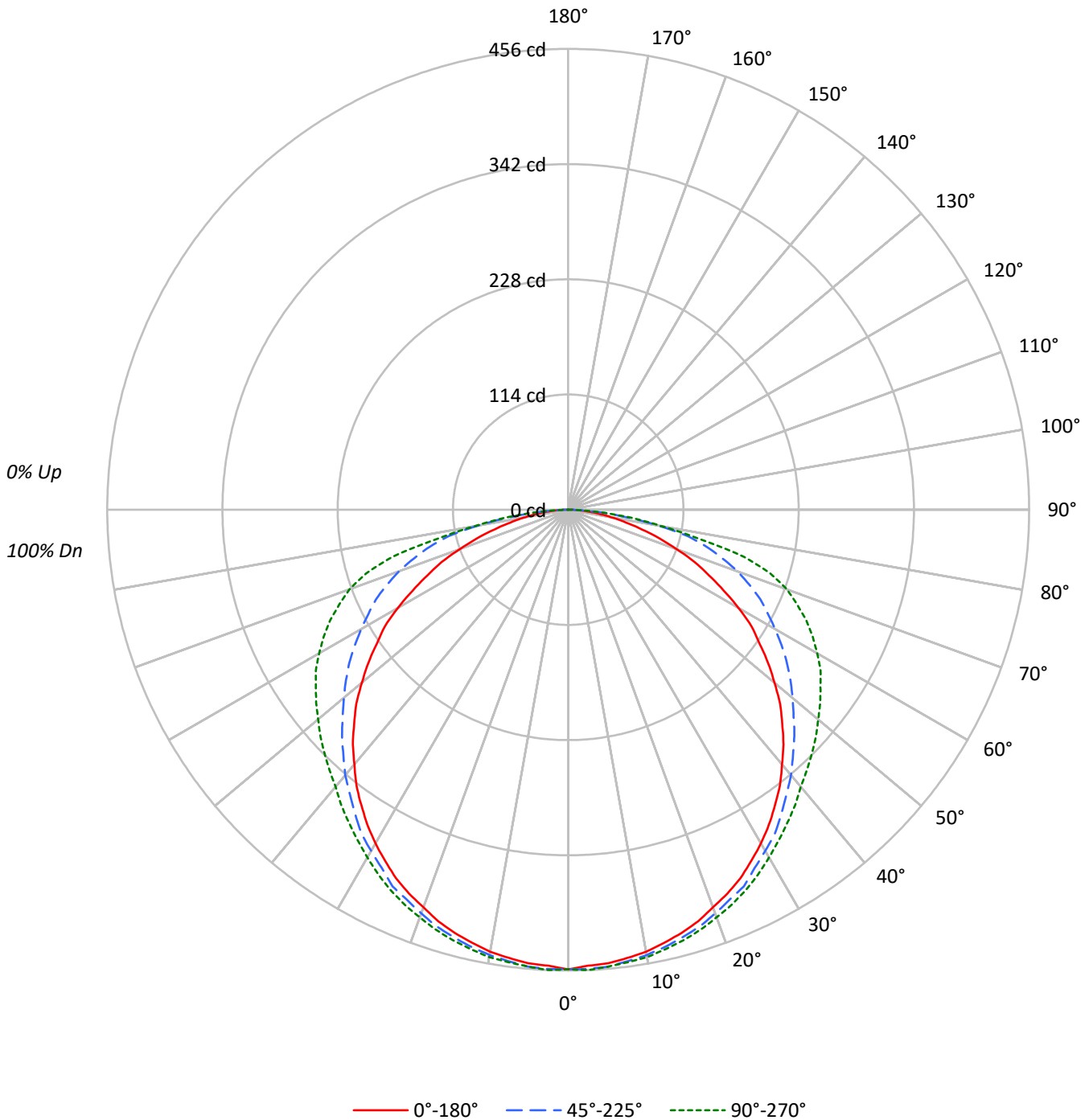
Input Watts (W): 20.646  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1224	1224	1224
5°	1217	1226	1226
10°	1214	1223	1228
15°	1208	1220	1229
20°	1199	1217	1229
25°	1195	1221	1233
30°	1185	1212	1235
35°	1172	1207	1242
40°	1156	1205	1257
45°	1139	1204	1297
50°	1115	1213	1351
55°	1084	1240	1429
60°	1049	1273	1531
65°	977	1336	1655
70°	897	1400	1810
75°	786	1473	1871
80°	677	1402	1469
85°	593	1019	1118



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	43.0	3.0
10°-20°	123.5	8.5
20°-30°	188.5	13.0
30°-40°	230.1	15.9
40°-50°	246.1	17.0
50°-60°	237.5	16.4
60°-70°	204.4	14.1
70°-80°	138.3	9.6
80°-90°	36.5	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°	355.0	24.5
0°-40°	585.2	40.4
0°-60°	1068.7	73.8
0°-90°	1448.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1448.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	455	455	455	455	455	
5°	451	452	454	454	454	43
15°	434	435	438	440	441	122
25°	403	405	411	413	415	185
35°	357	360	368	375	378	223
45°	299	305	316	332	341	231
55°	231	239	264	291	305	207
65°	153	168	210	243	260	153
75°	76	100	142	170	180	81
85°	19	27	33	34	36	22
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	454.8	454.8	454.8	454.8	454.8
2.5°	451.6	452.7	454.8	454.8	455.9
5°	450.6	451.6	453.8	453.8	453.8
7.5°	447.4	448.5	450.6	451.6	451.6
10°	444.2	445.3	447.4	448.5	449.5
12.5°	438.9	439.9	443.1	445.3	445.3
15°	433.5	434.6	437.8	439.9	441.0
17.5°	427.1	429.3	432.5	434.6	435.7
20°	418.6	420.8	425.0	428.2	429.3
22.5°	411.2	413.3	417.6	420.8	422.9
25°	402.6	404.8	411.2	413.3	415.4
27.5°	392.0	394.1	399.5	403.7	406.9
30°	381.3	383.5	389.9	395.2	397.3
32.5°	369.6	372.8	380.3	384.5	387.7
35°	356.8	360.0	367.5	375.0	378.1
37.5°	344.1	347.3	354.7	364.3	368.6
40°	329.1	333.4	343.0	355.8	357.9
42.5°	315.3	320.6	329.1	344.1	349.4
45°	299.3	304.6	316.4	332.3	340.9
47.5°	284.4	289.7	302.5	321.7	332.3
50°	266.3	273.8	289.7	312.1	322.8
52.5°	249.3	255.6	277.0	301.5	314.2
55°	231.1	238.6	264.2	290.8	304.6
57.5°	215.2	221.6	250.3	280.1	296.1
60°	194.9	203.5	236.5	268.4	284.4
62.5°	173.6	186.4	222.6	255.6	272.7
65°	153.4	168.3	209.8	242.9	259.9
67.5°	135.3	151.3	193.9	229.0	245.0
70°	114.0	134.2	177.9	212.0	230.1
72.5°	94.8	117.2	159.8	193.9	209.8
75°	75.6	100.1	141.7	170.4	180.0
77.5°	58.6	82.0	121.4	130.0	131.0
80°	43.7	65.0	90.5	91.6	94.8
82.5°	29.8	45.8	58.6	63.9	65.0
85°	19.2	26.6	33.0	34.1	36.2
87.5°	8.5	9.6	11.7	10.7	10.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)