

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: P277620

Luminaire Tested: **22CZ2-29HE-RDP-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P277620  
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-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: 1393.0 lumens  
Efficiency: N/A  
Efficacy: 67.2 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

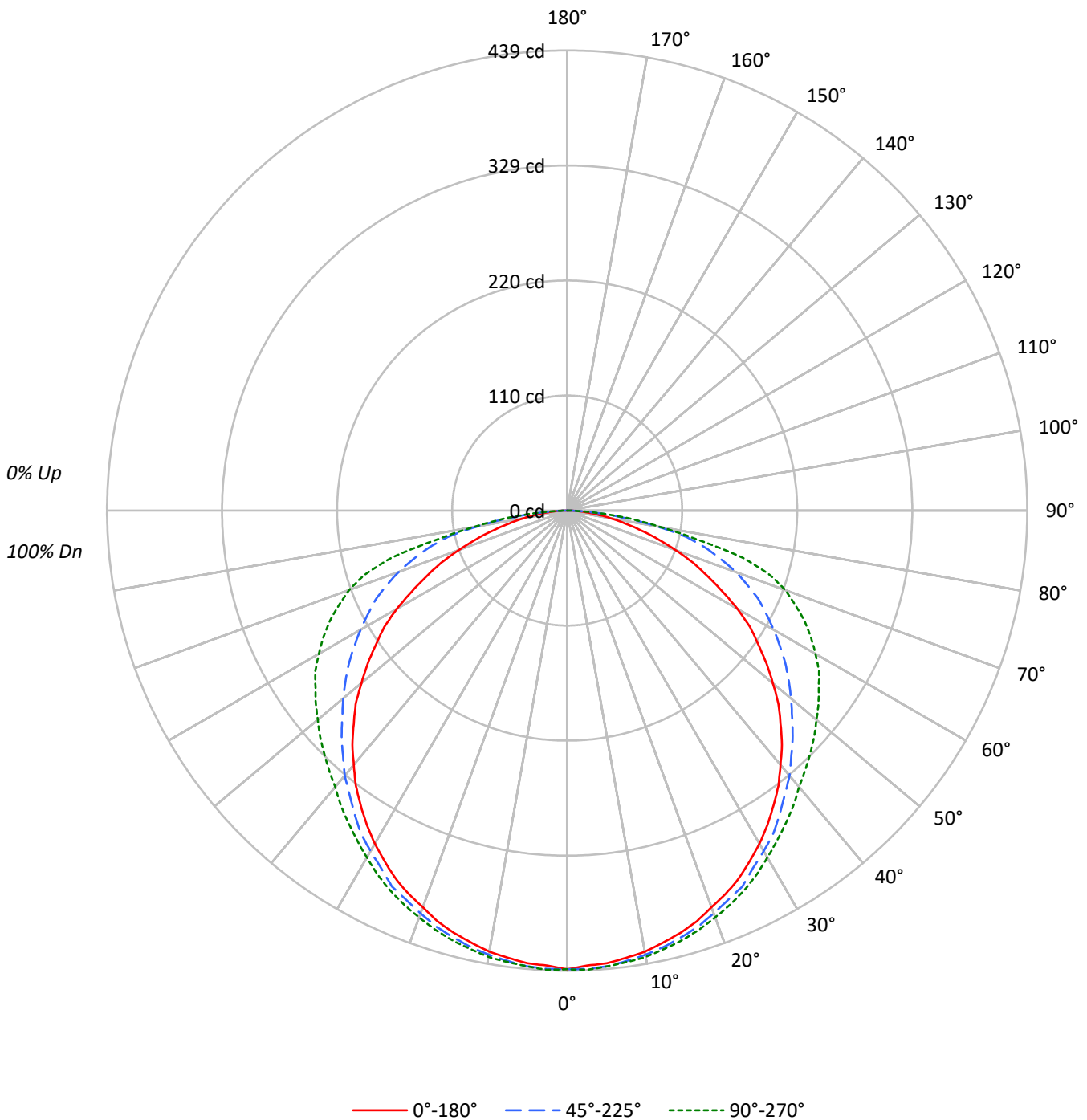
Input Watts (W): 20.739  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1178	1178	1178
5°	1171	1179	1179
10°	1168	1176	1182
15°	1162	1173	1182
20°	1153	1171	1183
25°	1150	1175	1187
30°	1140	1166	1188
35°	1128	1161	1195
40°	1112	1159	1209
45°	1096	1158	1248
50°	1073	1167	1300
55°	1043	1192	1375
60°	1009	1224	1473
65°	940	1286	1592
70°	862	1346	1741
75°	757	1417	1801
80°	651	1350	1413
85°	568	982	1074



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	41.4	3.0
10°-20°	118.8	8.5
20°-30°	181.3	13.0
30°-40°	221.4	15.9
40°-50°	236.7	17.0
50°-60°	228.5	16.4
60°-70°	196.7	14.1
70°-80°	133.1	9.6
80°-90°	35.1	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°	341.6	24.5
0°-40°	562.9	40.4
0°-60°	1028.1	73.8
0°-90°	1393.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1393.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	438	438	438	438	438	
5°	434	434	436	436	436	41
15°	417	418	421	423	424	118
25°	387	389	396	398	400	178
35°	343	346	354	361	364	215
45°	288	293	304	320	328	222
55°	222	230	254	280	293	199
65°	148	162	202	234	250	147
75°	73	96	136	164	173	78
85°	18	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°	437.6	437.6	437.6	437.6	437.6
2.5°	434.5	435.5	437.6	437.6	438.6
5°	433.5	434.5	436.5	436.5	436.5
7.5°	430.4	431.4	433.5	434.5	434.5
10°	427.3	428.3	430.4	431.4	432.4
12.5°	422.2	423.2	426.3	428.3	428.3
15°	417.1	418.1	421.2	423.2	424.2
17.5°	410.9	413.0	416.0	418.1	419.1
20°	402.7	404.8	408.9	411.9	413.0
22.5°	395.6	397.6	401.7	404.8	406.8
25°	387.4	389.4	395.6	397.6	399.7
27.5°	377.1	379.2	384.3	388.4	391.5
30°	366.9	368.9	375.1	380.2	382.2
32.5°	355.6	358.7	365.8	369.9	373.0
35°	343.3	346.4	353.5	360.7	363.8
37.5°	331.0	334.1	341.2	350.5	354.6
40°	316.6	320.7	330.0	342.3	344.3
42.5°	303.3	308.4	316.6	331.0	336.1
45°	288.0	293.1	304.3	319.7	327.9
47.5°	273.6	278.7	291.0	309.5	319.7
50°	256.2	263.4	278.7	300.2	310.5
52.5°	239.8	245.9	266.4	290.0	302.3
55°	222.4	229.5	254.1	279.8	293.1
57.5°	207.0	213.1	240.8	269.5	284.9
60°	187.5	195.7	227.5	258.2	273.6
62.5°	167.0	179.3	214.2	245.9	262.3
65°	147.6	161.9	201.9	233.6	250.0
67.5°	130.1	145.5	186.5	220.3	235.7
70°	109.6	129.1	171.1	203.9	221.3
72.5°	91.2	112.7	153.7	186.5	201.9
75°	72.8	96.3	136.3	164.0	173.2
77.5°	56.4	78.9	116.8	125.0	126.0
80°	42.0	62.5	87.1	88.1	91.2
82.5°	28.7	44.1	56.4	61.5	62.5
85°	18.4	25.6	31.8	32.8	34.8
87.5°	8.2	9.2	11.3	10.2	10.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)