

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: P277627

Luminaire Tested: **22CZ2-29HE-RDP-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P277627  
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-5700K  
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RDP LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1676.0 lumens  
Efficiency: N/A  
Efficacy: 78.0 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

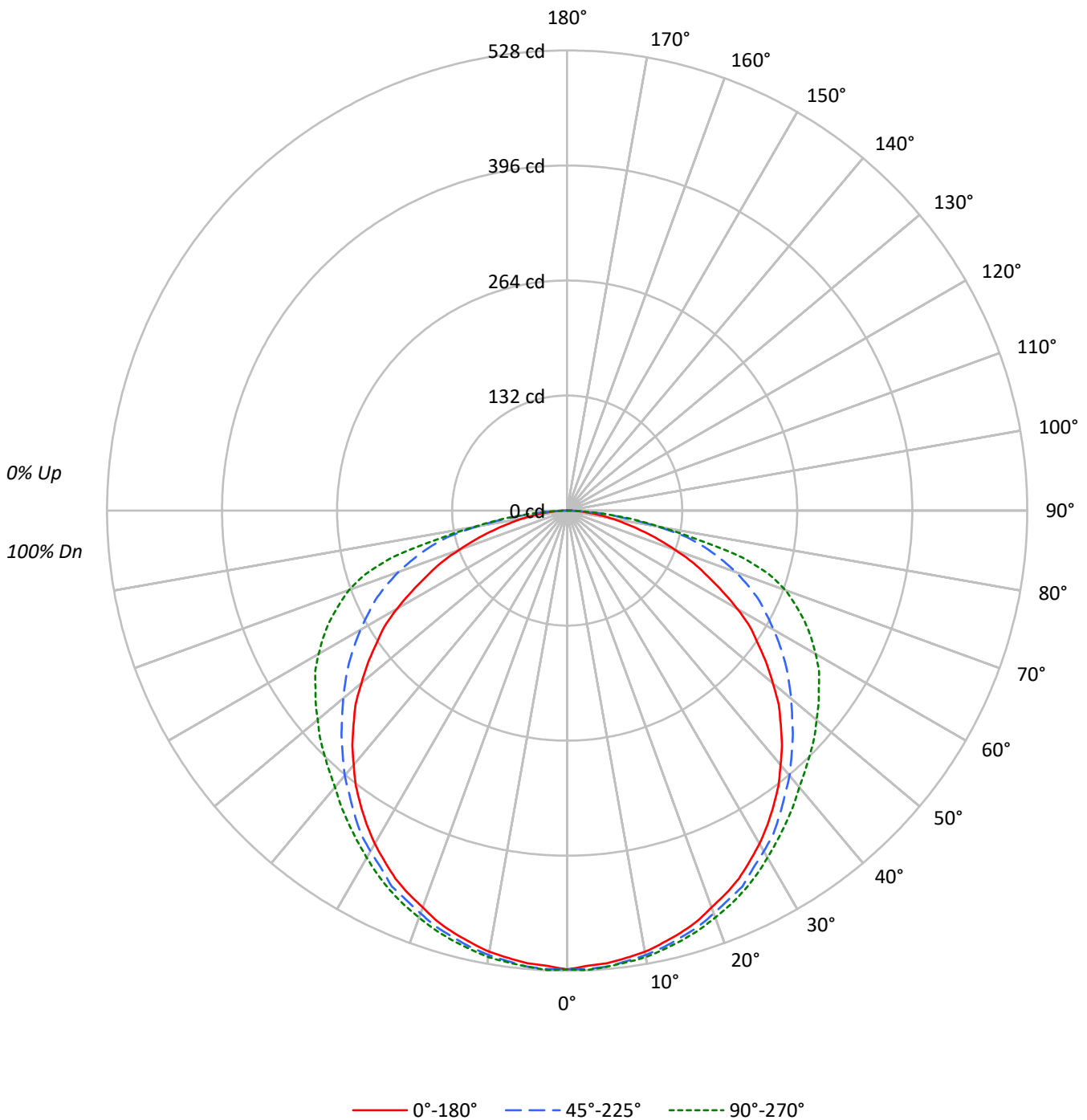
Input Watts (W): 21.483  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1417	1417	1417
5°	1409	1419	1419
10°	1405	1415	1422
15°	1398	1412	1422
20°	1387	1409	1423
25°	1384	1413	1428
30°	1372	1402	1429
35°	1357	1397	1438
40°	1338	1395	1455
45°	1319	1394	1501
50°	1290	1404	1564
55°	1255	1435	1654
60°	1214	1473	1772
65°	1130	1547	1915
70°	1038	1620	2095
75°	910	1705	2167
80°	784	1624	1700
85°	685	1179	1294



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	49.8	3.0
10°-20°	143.0	8.5
20°-30°	218.1	13.0
30°-40°	266.4	15.9
40°-50°	284.8	17.0
50°-60°	274.9	16.4
60°-70°	236.6	14.1
70°-80°	160.1	9.6
80°-90°	42.2	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°	410.9	24.5
0°-40°	677.3	40.4
0°-60°	1237.0	73.8
0°-90°	1676.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1676.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	526	526	526	526	526	
5°	522	523	525	525	525	50
15°	502	503	507	509	510	142
25°	466	468	476	478	481	214
35°	413	417	425	434	438	258
45°	346	353	366	385	394	267
55°	268	276	306	337	353	240
65°	178	195	243	281	301	177
75°	88	116	164	197	208	94
85°	22	31	38	40	42	25
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	526.5	526.5	526.5	526.5	526.5
2.5°	522.8	524.0	526.5	526.5	527.7
5°	521.5	522.8	525.2	525.2	525.2
7.5°	517.8	519.1	521.5	522.8	522.8
10°	514.1	515.4	517.8	519.1	520.3
12.5°	508.0	509.2	512.9	515.4	515.4
15°	501.8	503.0	506.7	509.2	510.4
17.5°	494.4	496.9	500.6	503.0	504.3
20°	484.5	487.0	491.9	495.6	496.9
22.5°	475.9	478.4	483.3	487.0	489.5
25°	466.0	468.5	475.9	478.4	480.8
27.5°	453.7	456.2	462.3	467.3	471.0
30°	441.4	443.9	451.3	457.4	459.9
32.5°	427.8	431.5	440.2	445.1	448.8
35°	413.0	416.7	425.4	434.0	437.7
37.5°	398.2	401.9	410.6	421.7	426.6
40°	381.0	385.9	397.0	411.8	414.3
42.5°	364.9	371.1	381.0	398.2	404.4
45°	346.5	352.6	366.2	384.7	394.5
47.5°	329.2	335.4	350.2	372.3	384.7
50°	308.2	316.9	335.4	361.2	373.6
52.5°	288.5	295.9	320.6	348.9	363.7
55°	267.5	276.2	305.8	336.6	352.6
57.5°	249.1	256.4	289.7	324.3	342.8
60°	225.6	235.5	273.7	310.7	329.2
62.5°	201.0	215.8	257.7	295.9	315.6
65°	177.5	194.8	242.9	281.1	300.8
67.5°	156.6	175.1	224.4	265.1	283.6
70°	131.9	155.3	205.9	245.4	266.3
72.5°	109.7	135.6	184.9	224.4	242.9
75°	87.5	115.9	164.0	197.3	208.4
77.5°	67.8	94.9	140.6	150.4	151.7
80°	50.6	75.2	104.8	106.0	109.7
82.5°	34.5	53.0	67.8	74.0	75.2
85°	22.2	30.8	38.2	39.5	41.9
87.5°	9.9	11.1	13.6	12.3	12.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)