

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: P277266

Luminaire Tested: **22CZ2-20HE-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P277266  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-27)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22CZ2-20HE-UNV-L92765-W2A1-U-2700K  
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RIBBED LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1578.0 lumens  
Efficiency: N/A  
Efficacy: 101.6 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.36  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

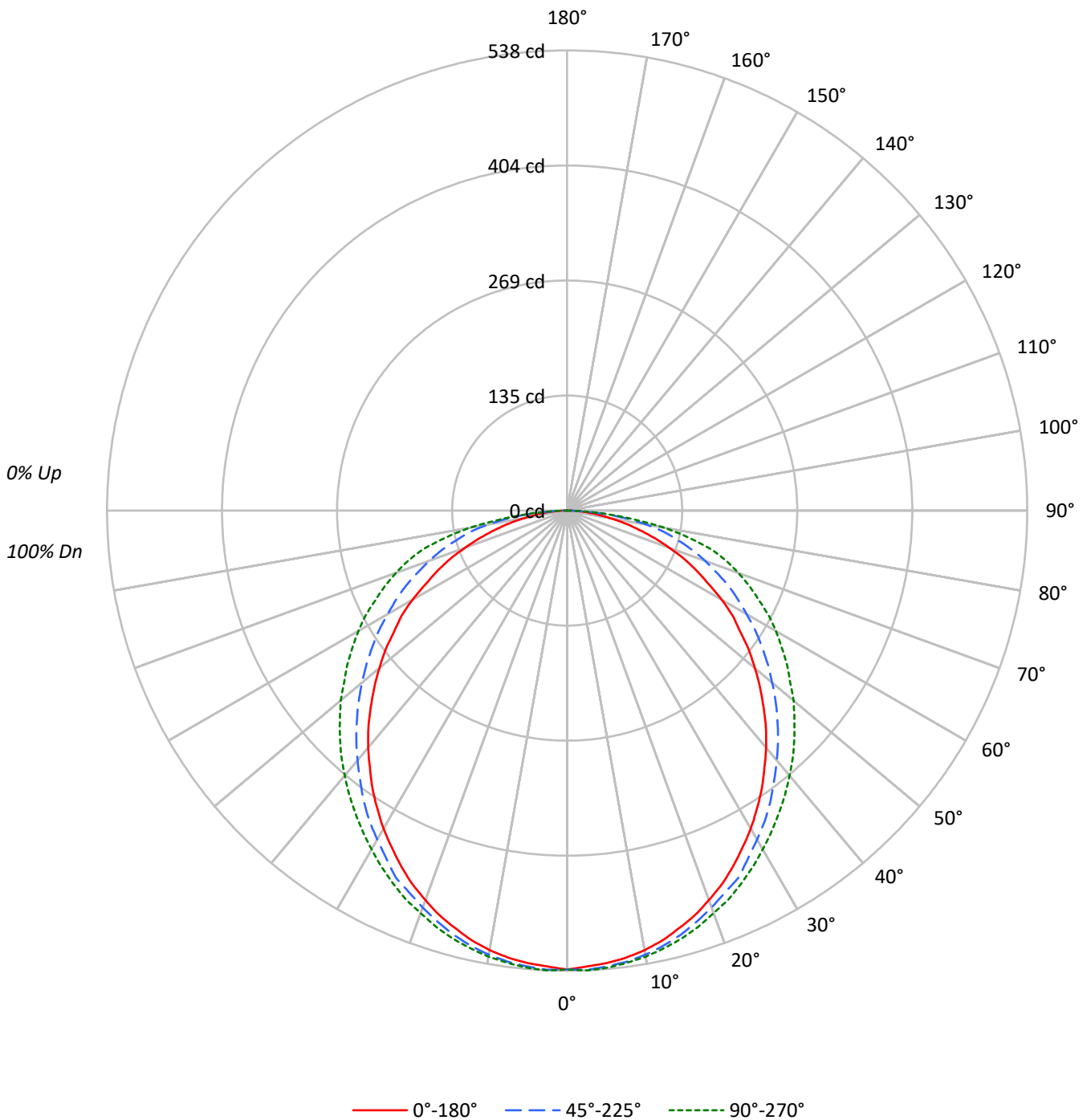
Input Watts (W): 15.531  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	101	96	93	96	93	90	92	90	87	89	86	84	82
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68
3	89	78	69	63	86	76	68	62	73	66	61	70	65	60	68	63	59	56
4	81	69	60	53	79	67	59	52	65	57	52	63	56	51	60	55	50	48
5	75	61	52	45	72	60	52	45	58	50	44	56	49	44	54	48	44	41
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31	42	35	30	41	35	30	28
9	56	42	34	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23

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

	0°	45°	90°
0°	1444	1444	1444
5°	1435	1445	1449
10°	1426	1441	1447
15°	1408	1430	1443
20°	1387	1414	1434
25°	1363	1406	1429
30°	1334	1380	1421
35°	1304	1362	1418
40°	1271	1339	1421
45°	1235	1324	1430
50°	1199	1310	1446
55°	1158	1304	1472
60°	1124	1304	1517
65°	1068	1325	1572
70°	996	1350	1674
75°	912	1396	1808
80°	793	1457	1781
85°	695	1294	1414



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	50.7	3.2
10°-20°	144.5	9.2
20°-30°	217.0	13.7
30°-40°	259.3	16.4
40°-50°	269.6	17.1
50°-60°	249.9	15.8
60°-70°	205.0	13.0
70°-80°	138.5	8.8
80°-90°	43.5	2.8
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°	412.2	26.1
0°-40°	671.5	42.6
0°-60°	1191.0	75.5
0°-90°	1578.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1578.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	536	536	536	536	536	
5°	531	532	535	536	536	50
15°	506	508	513	516	518	143
25°	459	463	474	479	481	211
35°	397	402	415	427	432	248
45°	325	331	348	368	376	251
55°	247	255	278	303	314	222
65°	168	177	208	235	247	166
75°	88	102	134	162	174	93
85°	22	31	42	47	46	26
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	536.5	536.5	536.5	536.5	536.5
2.5°	533.4	535.0	537.3	538.1	538.1
5°	531.1	531.9	535.0	535.8	536.5
7.5°	527.2	528.8	531.9	532.7	533.4
10°	521.8	523.3	527.2	528.8	529.6
12.5°	514.8	516.4	521.0	523.3	524.1
15°	505.5	507.8	513.3	516.4	517.9
17.5°	496.2	498.5	503.9	508.6	510.1
20°	484.5	490.0	493.8	500.1	500.8
22.5°	472.9	476.0	483.0	489.2	492.3
25°	458.9	462.8	473.7	479.1	481.4
27.5°	444.1	449.6	458.1	466.7	469.8
30°	429.4	433.3	444.1	454.2	457.3
32.5°	413.1	418.5	430.2	440.3	444.9
35°	396.8	402.2	414.6	427.1	431.7
37.5°	378.9	385.1	397.6	412.3	418.5
40°	361.8	366.5	381.3	399.1	404.5
42.5°	344.0	349.4	364.9	384.4	390.6
45°	324.6	330.8	347.9	368.1	375.8
47.5°	305.9	312.1	330.8	351.0	360.3
50°	286.5	294.3	312.9	336.2	345.5
52.5°	267.9	274.9	295.8	319.9	328.5
55°	246.9	254.7	278.0	302.8	313.7
57.5°	229.8	235.3	260.9	286.5	297.4
60°	208.9	215.9	242.3	269.4	281.9
62.5°	186.4	198.0	225.2	253.1	265.6
65°	167.7	177.0	208.1	235.3	246.9
67.5°	148.3	158.4	188.7	217.4	230.6
70°	126.6	139.8	171.6	200.3	212.8
72.5°	107.2	121.1	153.7	181.7	194.9
75°	87.7	102.5	134.3	161.5	173.9
77.5°	69.1	85.4	116.5	137.4	145.2
80°	51.2	66.8	94.0	108.7	114.9
82.5°	35.7	48.9	69.1	76.9	78.4
85°	22.5	31.1	41.9	46.6	45.8
87.5°	10.1	12.4	15.5	17.1	16.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)