

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: P276882

Luminaire Tested: **24CZ2-30HE-RDP-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P276882  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1808-918-19)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ2-30HE-RDP-UNV-L82765-W2A1-U-2700K  
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS  
Light Source: (336) 80 CRI LEDS TUNED TO 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1792.3 lumens  
Efficiency: N/A  
Efficacy: 91.3 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

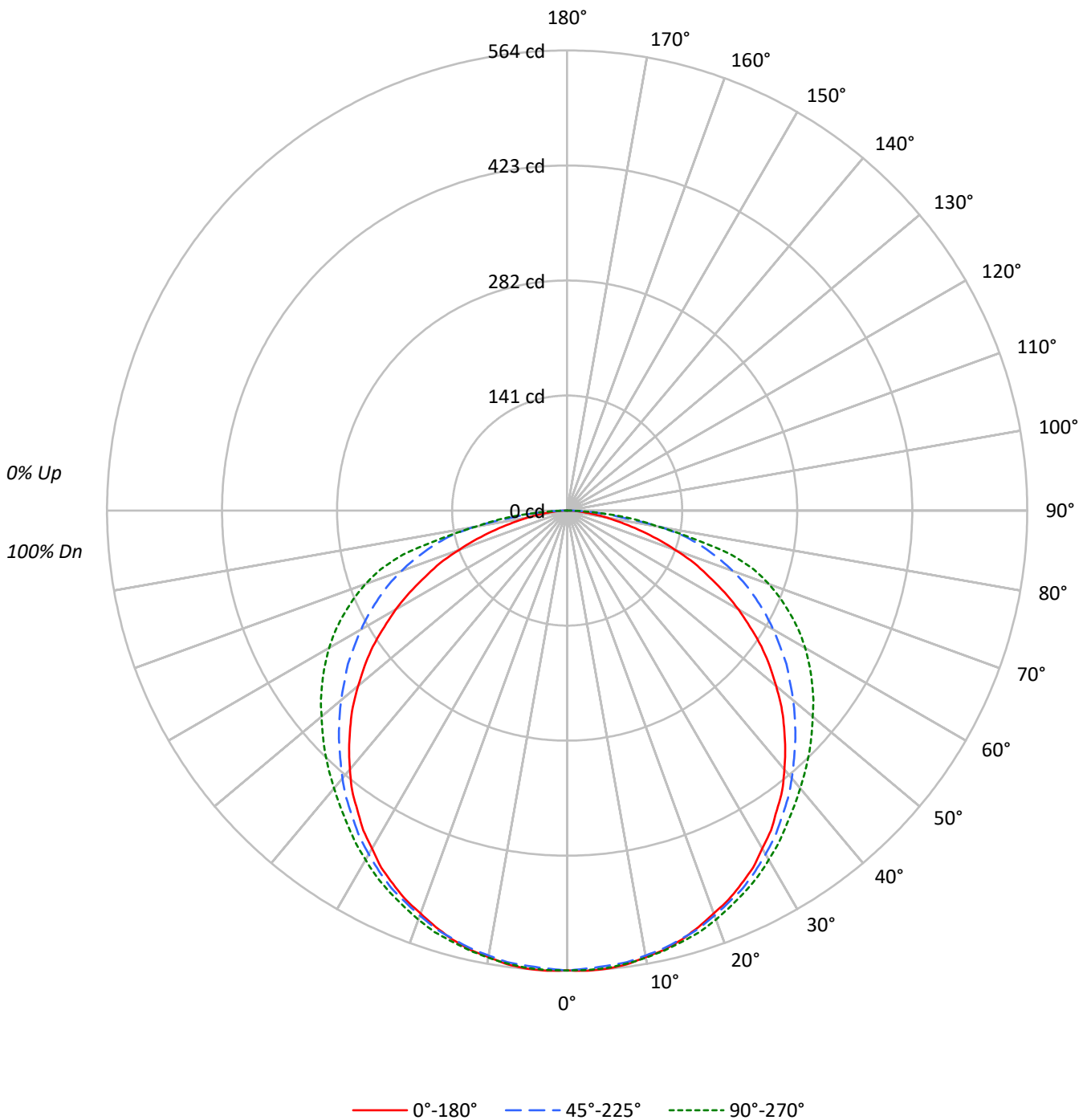
Input Watts (W): 19.623  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	93	89	92	89	87	88	86	84	82
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67
3	88	77	68	62	86	76	67	61	72	66	60	70	64	59	67	62	58	56
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49	47
5	74	60	51	44	72	59	51	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	45	38	51	44	38	50	43	37	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27
9	55	41	33	27	53	40	32	27	39	32	27	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°	758	758	758
5°	761	756	760
10°	759	757	760
15°	758	757	762
20°	752	756	764
25°	750	758	765
30°	743	756	768
35°	736	753	771
40°	728	753	781
45°	715	753	798
50°	700	757	822
55°	682	769	859
60°	653	785	907
65°	611	812	962
70°	556	850	1035
75°	472	897	1081
80°	372	903	875
85°	275	687	769



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	53.5	3.0
10°-20°	153.9	8.6
20°-30°	235.3	13.1
30°-40°	287.7	16.0
40°-50°	306.6	17.1
50°-60°	293.1	16.4
60°-70°	248.3	13.9
70°-80°	166.9	9.3
80°-90°	47.1	2.6
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°	442.6	24.7
0°-40°	730.3	40.7
0°-60°	1330.0	74.2
0°-90°	1792.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1792.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	564	564	564	564	564	
5°	564	563	560	563	563	54
15°	544	544	543	548	547	153
25°	505	507	510	515	516	233
35°	448	452	459	468	469	281
45°	376	382	396	412	420	290
55°	291	301	328	354	366	259
65°	192	212	255	289	302	191
75°	91	124	172	202	208	97
85°	18	36	44	48	50	22
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	563.6	563.6	563.6	563.6	563.6
2.5°	564.5	564.5	561.8	563.6	563.6
5°	563.6	562.7	560.1	562.7	562.7
7.5°	561.0	560.1	558.3	561.0	560.1
10°	555.6	555.6	553.8	556.5	556.5
12.5°	551.2	550.3	549.4	553.0	552.1
15°	544.1	544.1	543.2	547.6	546.7
17.5°	535.2	536.1	537.0	540.5	541.4
20°	525.4	527.2	528.1	533.4	533.4
22.5°	516.5	517.4	519.2	524.5	524.5
25°	505.0	506.7	510.3	514.7	515.6
27.5°	493.4	494.3	498.7	505.0	505.8
30°	478.3	481.0	486.3	493.4	494.3
32.5°	464.9	467.6	473.8	481.0	482.7
35°	448.1	451.6	458.7	467.6	469.4
37.5°	432.9	435.6	444.5	454.3	456.9
40°	414.3	419.6	428.5	440.1	444.5
42.5°	395.6	400.9	411.6	426.7	432.1
45°	376.0	382.3	395.6	412.5	419.6
47.5°	356.5	363.6	378.7	398.3	406.3
50°	334.3	343.2	361.8	384.0	392.9
52.5°	312.9	323.6	344.0	368.9	380.5
55°	290.7	301.4	328.0	353.8	366.3
57.5°	265.8	280.0	309.4	338.7	352.0
60°	242.7	256.0	291.6	323.6	336.9
62.5°	217.8	235.6	273.8	307.6	320.9
65°	192.0	211.6	255.1	288.9	302.3
67.5°	168.9	190.2	236.5	270.3	283.6
70°	141.4	168.0	216.0	249.8	263.1
72.5°	115.6	144.9	194.7	227.6	240.0
75°	90.7	123.6	172.5	201.8	208.0
77.5°	67.6	102.2	149.4	161.8	157.4
80°	48.0	81.8	116.5	110.2	112.9
82.5°	31.1	62.2	72.0	81.8	84.5
85°	17.8	36.4	44.5	48.0	49.8
87.5°	8.0	13.3	17.8	17.8	16.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)