

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: P276268

Luminaire Tested: **24CZ2-30-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P276268  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-5)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ2-30-UNV-L92765-W2A1-U-3000K  
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER  
WITH RIBBED LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2337.6 lumens  
Efficiency: N/A  
Efficacy: 108.3 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

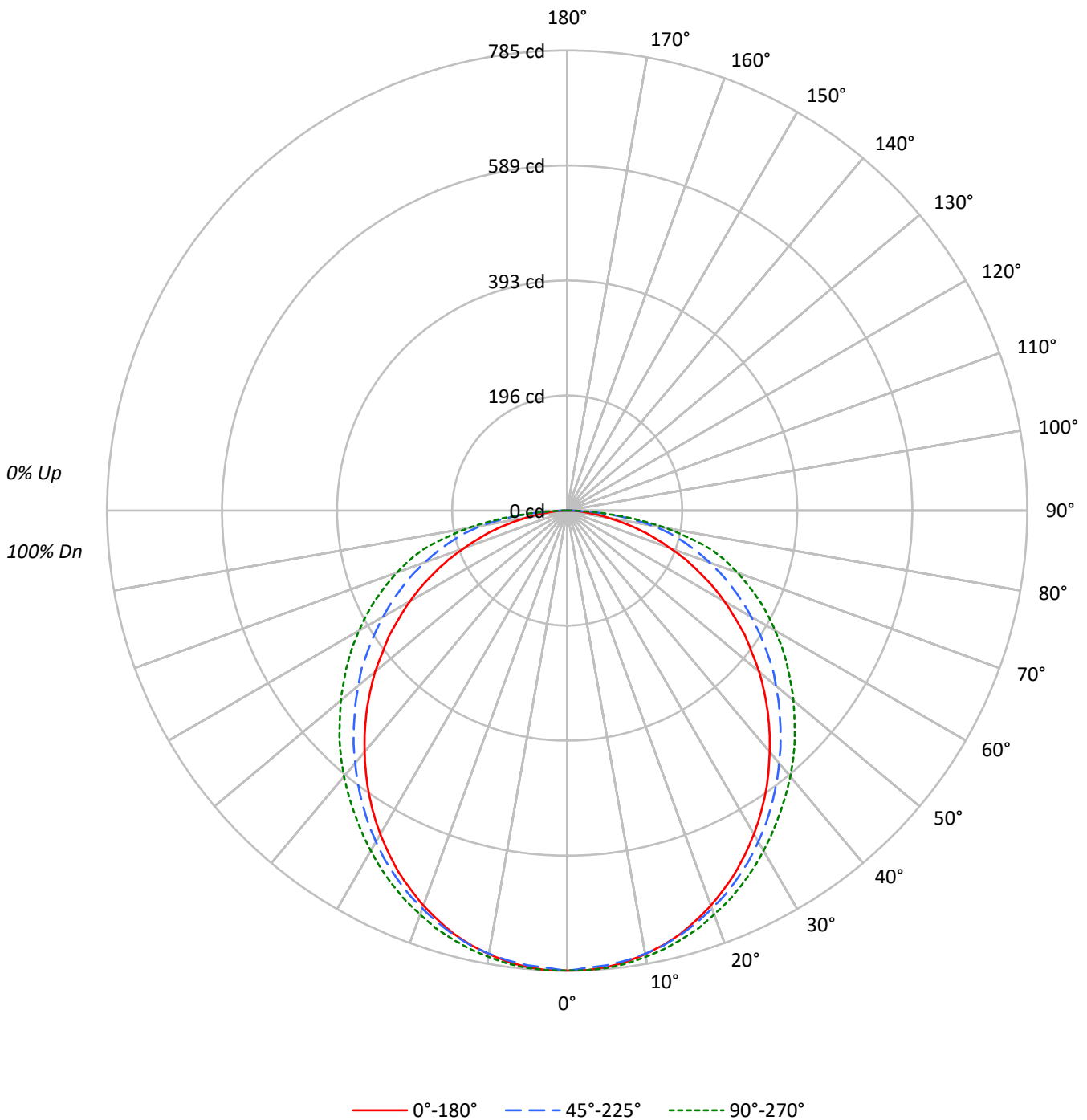
Input Watts (W): 21.576  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	89	86	84	82
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	58	56
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	50	48
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	39	50	44	38	49	43	38	36
7	64	50	41	35	62	49	40	34	47	40	34	46	39	34	45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

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

	0°	45°	90°
0°	1056	1056	1056
5°	1056	1052	1058
10°	1050	1049	1056
15°	1041	1043	1054
20°	1027	1034	1050
25°	1010	1025	1046
30°	990	1013	1041
35°	969	1001	1038
40°	944	988	1040
45°	920	978	1045
50°	895	973	1055
55°	867	972	1074
60°	833	976	1102
65°	790	991	1150
70°	734	1016	1215
75°	669	1067	1318
80°	550	1148	1318
85°	421	1061	1132



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	74.2	3.2
10°-20°	211.9	9.1
20°-30°	318.9	13.6
30°-40°	382.2	16.3
40°-50°	398.2	17.0
50°-60°	370.5	15.9
60°-70°	305.2	13.1
70°-80°	207.8	8.9
80°-90°	68.6	2.9
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°	605.0	25.9
0°-40°	987.2	42.2
0°-60°	1755.9	75.1
0°-90°	2337.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2337.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	785	785	785	785	785	
5°	782	782	779	782	783	74
15°	747	748	749	756	757	211
25°	680	683	690	702	704	313
35°	590	597	609	626	632	369
45°	484	494	514	540	549	373
55°	370	382	414	447	458	330
65°	248	269	311	348	361	246
75°	129	158	205	242	254	136
85°	27	53	69	73	73	34
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	784.8	784.8	784.8	784.8	784.8
2.5°	784.8	784.8	780.9	784.8	784.8
5°	781.7	781.7	778.6	782.5	783.3
7.5°	776.2	777.0	773.9	778.6	779.4
10°	768.4	769.2	767.7	772.3	773.1
12.5°	759.1	759.9	759.9	765.3	766.1
15°	747.4	748.2	748.9	756.0	756.7
17.5°	732.6	734.9	736.5	745.0	746.6
20°	717.0	719.3	722.4	731.8	733.3
22.5°	699.0	702.1	707.6	717.7	720.1
25°	680.3	683.4	690.4	702.1	704.5
27.5°	659.2	663.9	672.5	685.0	688.1
30°	637.4	642.1	652.2	665.5	670.1
32.5°	614.0	620.2	631.9	646.7	651.4
35°	589.8	596.8	609.3	625.7	631.9
37.5°	564.0	571.8	586.7	604.6	612.4
40°	537.5	546.9	562.5	583.6	592.1
42.5°	511.0	519.6	539.1	561.7	571.1
45°	483.7	493.8	514.1	539.9	549.2
47.5°	455.6	465.7	489.9	517.2	525.8
50°	427.5	437.7	465.0	493.8	504.0
52.5°	397.1	410.4	441.6	470.4	480.6
55°	369.8	382.3	414.3	447.0	457.9
57.5°	338.6	353.4	388.5	422.8	434.5
60°	309.7	325.3	362.8	397.9	409.6
62.5°	280.1	297.2	337.0	372.9	386.2
65°	248.1	269.2	311.3	347.9	361.2
67.5°	219.2	241.1	285.5	323.0	334.7
70°	186.5	213.0	258.2	295.7	308.9
72.5°	158.4	184.9	232.5	269.2	282.4
75°	128.7	157.6	205.2	241.8	253.5
77.5°	99.1	131.1	178.7	206.7	210.6
80°	71.0	104.5	148.2	164.6	170.1
82.5°	49.9	80.4	109.2	120.1	123.3
85°	27.3	53.1	68.7	73.3	73.3
87.5°	11.7	22.6	27.3	28.1	28.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)