

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: P263752

Luminaire Tested: **24CZ-LD5-40SE-RDP-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263752  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25696)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ-LD5-40SE-RDP-UNV-L82765-W2A1-U-3500K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (168) 80 CRI LEDS TUNED AT 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2748.0 lumens  
Efficiency: N/A  
Efficacy: 89.8 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

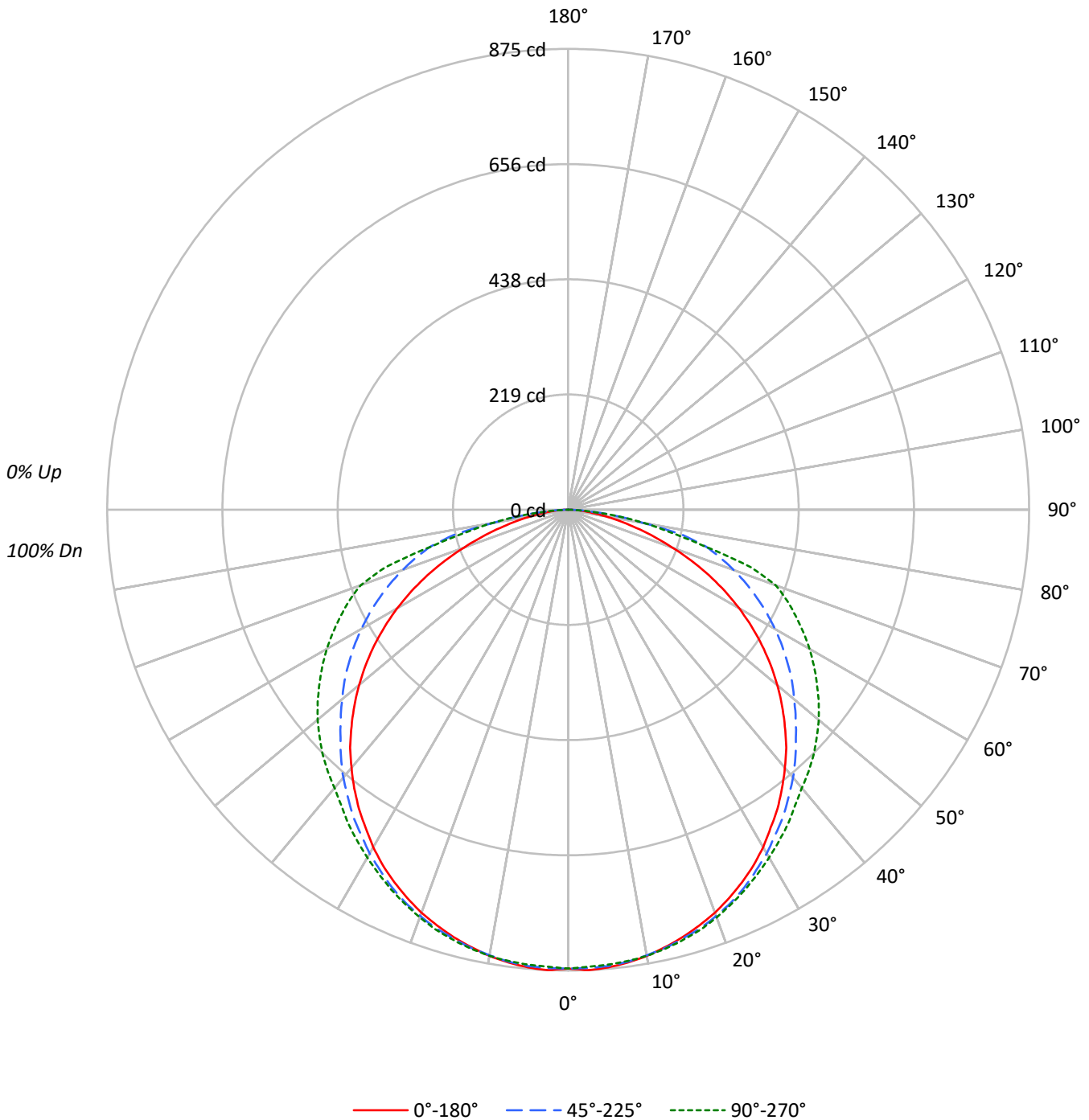
Input Watts (W): 30.597  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	97	93	96	93	90	92	90	87	89	87	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	60	70	64	59	67	62	58	56
4	81	68	59	52	78	67	58	52	64	57	51	62	56	50	60	54	50	47
5	74	61	51	45	72	60	51	44	57	50	44	55	49	43	54	48	43	41
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	34	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	27
9	55	41	33	27	53	41	32	27	39	32	27	38	32	27	37	31	27	25
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24	22

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

	0°	45°	90°
0°	1172	1172	1172
5°	1178	1175	1171
10°	1175	1174	1175
15°	1170	1174	1178
20°	1166	1176	1180
25°	1159	1175	1181
30°	1150	1171	1185
35°	1138	1169	1195
40°	1124	1167	1212
45°	1107	1163	1254
50°	1084	1172	1300
55°	1053	1193	1352
60°	1008	1220	1423
65°	939	1258	1516
70°	830	1314	1650
75°	696	1406	1385
80°	556	1111	1153
85°	438	752	689



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.6	3.0
10°-20°	237.8	8.7
20°-30°	363.2	13.2
30°-40°	444.0	16.2
40°-50°	475.3	17.3
50°-60°	455.9	16.6
60°-70°	384.9	14.0
70°-80°	246.0	9.0
80°-90°	58.2	2.1
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°	683.6	24.9
0°-40°	1127.7	41.0
0°-60°	2058.9	74.9
0°-90°	2748.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2748.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	871	871	871	871	871	
5°	872	867	870	868	867	83
15°	840	837	843	845	845	237
25°	780	779	791	794	795	360
35°	693	698	712	721	728	433
45°	582	591	611	640	659	449
55°	449	464	509	555	576	401
65°	295	323	395	450	476	291
75°	134	191	270	276	266	144
85°	28	47	49	47	45	34
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	871.1	871.1	871.1	871.1	871.1
2.5°	875.2	869.8	871.1	871.1	868.4
5°	872.5	867.1	869.8	868.4	867.1
7.5°	867.1	863.0	865.7	865.7	864.4
10°	860.3	856.3	859.0	860.3	860.3
12.5°	850.8	848.1	852.2	852.2	853.6
15°	840.0	837.3	842.7	845.4	845.4
17.5°	827.9	826.5	833.3	834.6	836.0
20°	814.3	813.0	821.1	821.1	823.8
22.5°	798.1	796.7	807.6	807.6	810.3
25°	780.5	779.2	791.3	794.0	795.4
27.5°	761.6	760.2	772.4	776.4	779.2
30°	739.9	739.9	753.5	758.9	762.9
32.5°	715.6	719.6	731.8	739.9	745.3
35°	692.6	698.0	711.5	721.0	727.8
37.5°	666.9	672.3	687.2	699.3	707.5
40°	639.8	646.6	664.2	677.7	689.9
42.5°	612.8	619.5	638.5	658.8	675.0
45°	581.7	591.1	611.4	639.8	658.8
47.5°	550.5	560.0	585.7	620.9	639.8
50°	518.1	528.9	560.0	600.6	620.9
52.5°	484.3	496.4	535.7	579.0	599.2
55°	449.1	464.0	508.6	554.6	576.3
57.5°	412.6	428.8	481.6	530.3	553.3
60°	374.7	395.0	453.2	504.6	528.9
62.5°	335.5	359.8	424.7	477.5	503.2
65°	294.9	323.3	395.0	450.4	476.2
67.5°	253.0	290.8	365.2	423.4	449.1
70°	211.0	255.7	334.1	393.6	419.3
72.5°	171.8	223.2	303.0	358.5	363.9
75°	133.9	190.7	270.5	276.0	266.5
77.5°	100.1	158.3	223.2	198.8	197.5
80°	71.7	127.2	143.4	147.4	148.8
82.5°	47.3	96.0	93.3	96.0	94.7
85°	28.4	47.3	48.7	47.3	44.6
87.5°	13.5	17.6	13.5	12.2	10.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)