

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: P263807

Luminaire Tested: **24CZ-LD5-45-RDP-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263807  
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-LD5-45-RDP-UNV-L92765-W2A1-U-4000K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (336) 90 CRI LEDS TUNED AT 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2753.0 lumens  
Efficiency: N/A  
Efficacy: 86.6 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

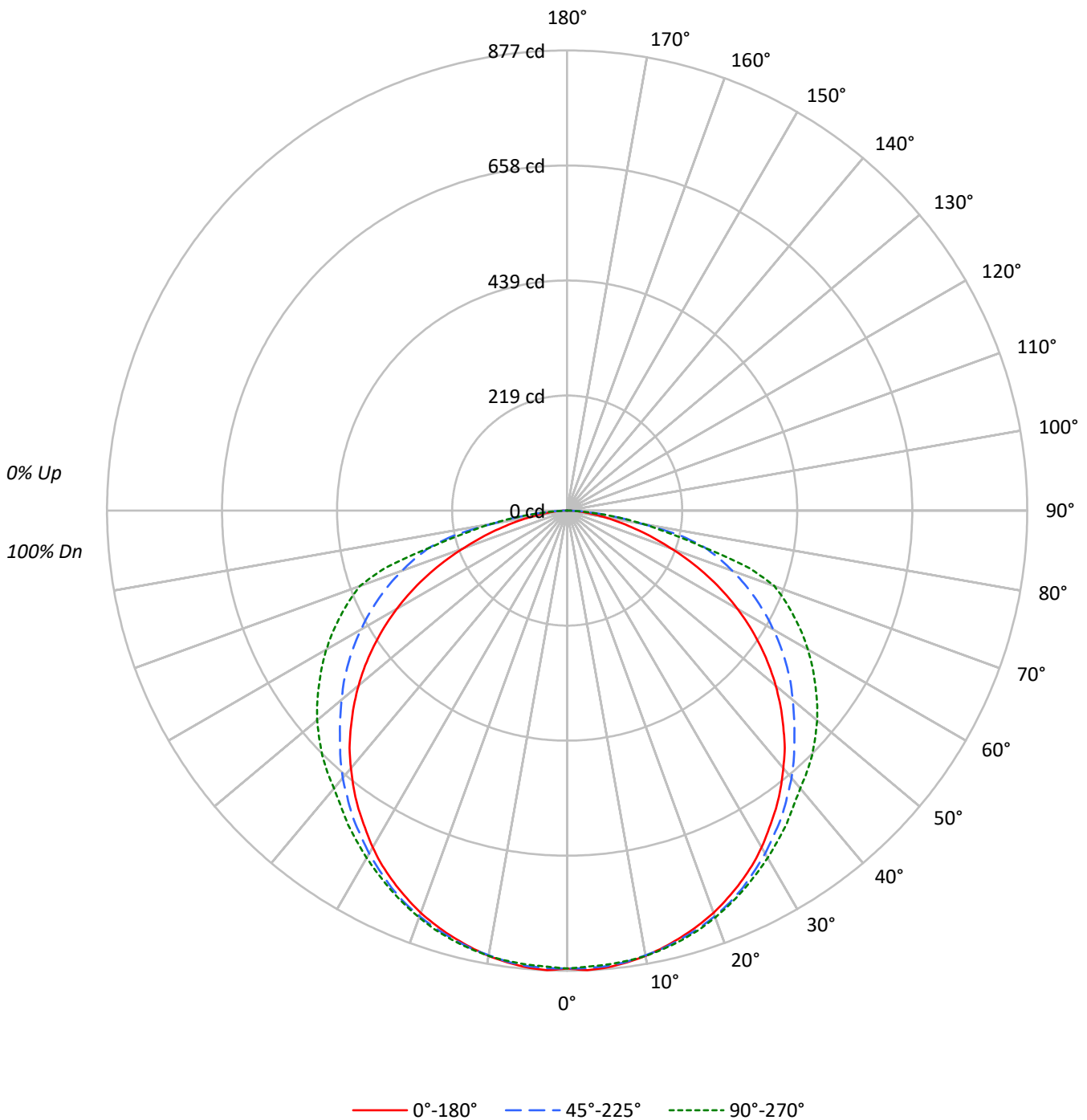
Input Watts (W): 31.806  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1174	1174	1174
5°	1181	1177	1173
10°	1178	1176	1178
15°	1172	1176	1180
20°	1168	1178	1182
25°	1161	1177	1183
30°	1152	1173	1187
35°	1140	1171	1198
40°	1126	1169	1214
45°	1109	1165	1256
50°	1086	1174	1302
55°	1055	1195	1354
60°	1010	1222	1426
65°	940	1260	1519
70°	832	1317	1653
75°	698	1409	1388
80°	556	1113	1155
85°	440	753	690



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.8	3.0
10°-20°	238.2	8.7
20°-30°	363.9	13.2
30°-40°	444.8	16.2
40°-50°	476.2	17.3
50°-60°	456.7	16.6
60°-70°	385.6	14.0
70°-80°	246.5	9.0
80°-90°	58.3	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°	684.9	24.9
0°-40°	1129.7	41.0
0°-60°	2062.6	74.9
0°-90°	2753.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2753.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	873	873	873	873	873	
5°	874	869	871	870	869	83
15°	842	839	844	847	847	238
25°	782	781	793	796	797	360
35°	694	699	713	722	729	434
45°	583	592	612	641	660	449
55°	450	465	510	556	577	401
65°	295	324	396	451	477	291
75°	134	191	271	276	267	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°	872.7	872.7	872.7	872.7	872.7
2.5°	876.8	871.4	872.7	872.7	870.0
5°	874.1	868.7	871.4	870.0	868.7
7.5°	868.7	864.6	867.3	867.3	865.9
10°	861.9	857.8	860.5	861.9	861.9
12.5°	852.4	849.7	853.8	853.8	855.1
15°	841.6	838.8	844.3	847.0	847.0
17.5°	829.4	828.0	834.8	836.1	837.5
20°	815.8	814.5	822.6	822.6	825.3
22.5°	799.5	798.2	809.0	809.0	811.7
25°	781.9	780.6	792.8	795.5	796.8
27.5°	763.0	761.6	773.8	777.9	780.6
30°	741.3	741.3	754.8	760.2	764.3
32.5°	716.9	720.9	733.1	741.3	746.7
35°	693.8	699.3	712.8	722.3	729.1
37.5°	668.1	673.5	688.4	700.6	708.7
40°	641.0	647.8	665.4	678.9	691.1
42.5°	613.9	620.7	639.6	660.0	676.2
45°	582.7	592.2	612.5	641.0	660.0
47.5°	551.6	561.0	586.8	622.0	641.0
50°	519.0	529.9	561.0	601.7	622.0
52.5°	485.1	497.3	536.6	580.0	600.3
55°	449.9	464.8	509.5	555.6	577.3
57.5°	413.3	429.6	482.4	531.2	554.3
60°	375.4	395.7	454.0	505.5	529.9
62.5°	336.1	360.5	425.5	478.4	504.1
65°	295.4	323.9	395.7	451.3	477.0
67.5°	253.4	291.4	365.9	424.2	449.9
70°	211.4	256.1	334.7	394.4	420.1
72.5°	172.1	223.6	303.6	359.1	364.5
75°	134.2	191.1	271.0	276.5	267.0
77.5°	100.3	158.6	223.6	199.2	197.9
80°	71.8	127.4	143.6	147.7	149.1
82.5°	47.4	96.2	93.5	96.2	94.9
85°	28.5	47.4	48.8	47.4	44.7
87.5°	13.6	17.6	13.6	12.2	10.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)