

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: P263507

Luminaire Tested: **24CZ-LD5-45-RDP-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263507  
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-L83050-W2A1-U-3000K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (336) 80 CRI LEDS TUNED AT 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2946.0 lumens  
Efficiency: N/A  
Efficacy: 93.9 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

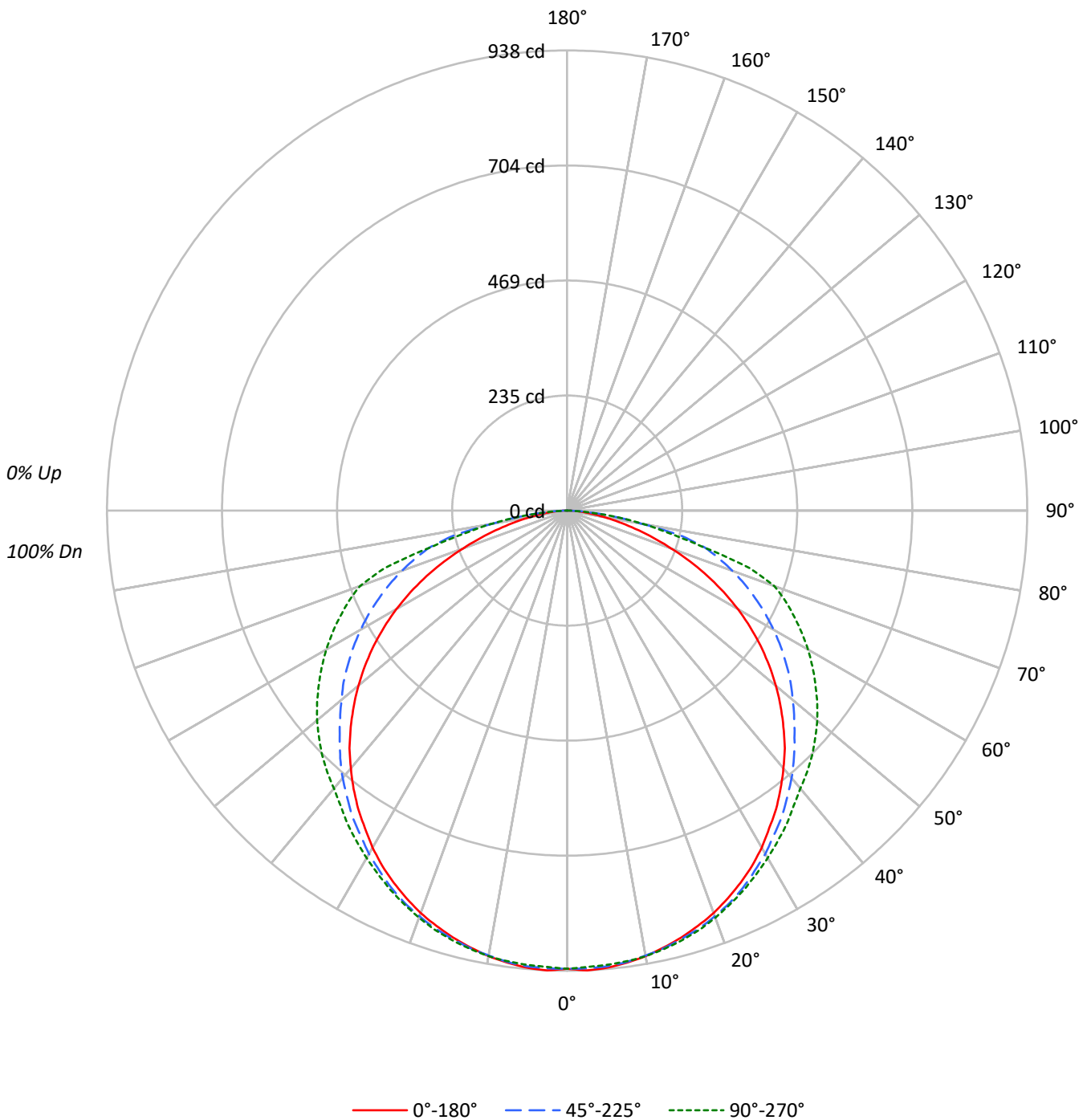
Input Watts (W): 31.371132  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	61	73	66	60	70	64	59	67	62	58	56
4	81	68	59	52	78	67	58	52	64	57	51	62	55	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°	1257	1257	1257
5°	1263	1259	1256
10°	1260	1258	1260
15°	1254	1259	1263
20°	1250	1260	1265
25°	1242	1259	1266
30°	1232	1255	1271
35°	1220	1253	1282
40°	1205	1251	1299
45°	1187	1247	1344
50°	1163	1257	1393
55°	1129	1279	1449
60°	1081	1307	1526
65°	1006	1348	1625
70°	890	1409	1769
75°	747	1508	1485
80°	596	1191	1236
85°	471	806	739



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.6	3.0
10°-20°	254.9	8.7
20°-30°	389.4	13.2
30°-40°	476.0	16.2
40°-50°	509.5	17.3
50°-60°	488.8	16.6
60°-70°	412.7	14.0
70°-80°	263.7	9.0
80°-90°	62.4	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°	732.9	24.9
0°-40°	1208.9	41.0
0°-60°	2207.2	74.9
0°-90°	2946.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2946.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	934	934	934	934	934	
5°	935	930	932	931	930	89
15°	901	898	904	906	906	254
25°	837	835	848	851	853	386
35°	742	748	763	773	780	464
45°	624	634	656	686	706	481
55°	482	497	545	595	618	430
65°	316	347	423	483	510	312
75°	144	204	290	296	286	155
85°	30	51	52	51	48	37
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	933.9	933.9	933.9	933.9	933.9
2.5°	938.3	932.5	933.9	933.9	931.0
5°	935.4	929.6	932.5	931.0	929.6
7.5°	929.6	925.2	928.1	928.1	926.7
10°	922.3	918.0	920.9	922.3	922.3
12.5°	912.2	909.3	913.6	913.6	915.1
15°	900.6	897.7	903.5	906.4	906.4
17.5°	887.5	886.1	893.3	894.8	896.2
20°	873.0	871.5	880.3	880.3	883.2
22.5°	855.6	854.1	865.7	865.7	868.6
25°	836.7	835.3	848.3	851.2	852.7
27.5°	816.4	815.0	828.0	832.4	835.3
30°	793.2	793.2	807.7	813.5	817.9
32.5°	767.1	771.5	784.5	793.2	799.0
35°	742.5	748.3	762.8	772.9	780.2
37.5°	714.9	720.7	736.7	749.7	758.4
40°	685.9	693.2	712.0	726.5	739.6
42.5°	656.9	664.2	684.5	706.2	723.6
45°	623.6	633.7	655.5	685.9	706.2
47.5°	590.2	600.4	627.9	665.6	685.9
50°	555.4	567.0	600.4	643.9	665.6
52.5°	519.2	532.2	574.3	620.7	642.4
55°	481.5	497.4	545.3	594.6	617.8
57.5°	442.3	459.7	516.3	568.5	593.1
60°	401.7	423.4	485.8	540.9	567.0
62.5°	359.6	385.7	455.4	511.9	539.5
65°	316.1	346.6	423.4	482.9	510.5
67.5°	271.2	311.8	391.5	453.9	481.5
70°	226.2	274.1	358.2	422.0	449.6
72.5°	184.2	239.3	324.8	384.3	390.1
75°	143.6	204.5	290.0	295.8	285.7
77.5°	107.3	169.7	239.3	213.2	211.7
80°	76.9	136.3	153.7	158.1	159.5
82.5°	50.8	103.0	100.1	103.0	101.5
85°	30.5	50.8	52.2	50.8	47.9
87.5°	14.5	18.9	14.5	13.1	11.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)