

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: P263900

Luminaire Tested: **24CZ-LD5-45SE-RDP-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263900  
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-LD5-45SE-RDP-UNV-L92765-W2A1-U-5500K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (168) 90 CRI LEDS TUNED AT 5500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2957.0 lumens  
Efficiency: N/A  
Efficacy: 82.2 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

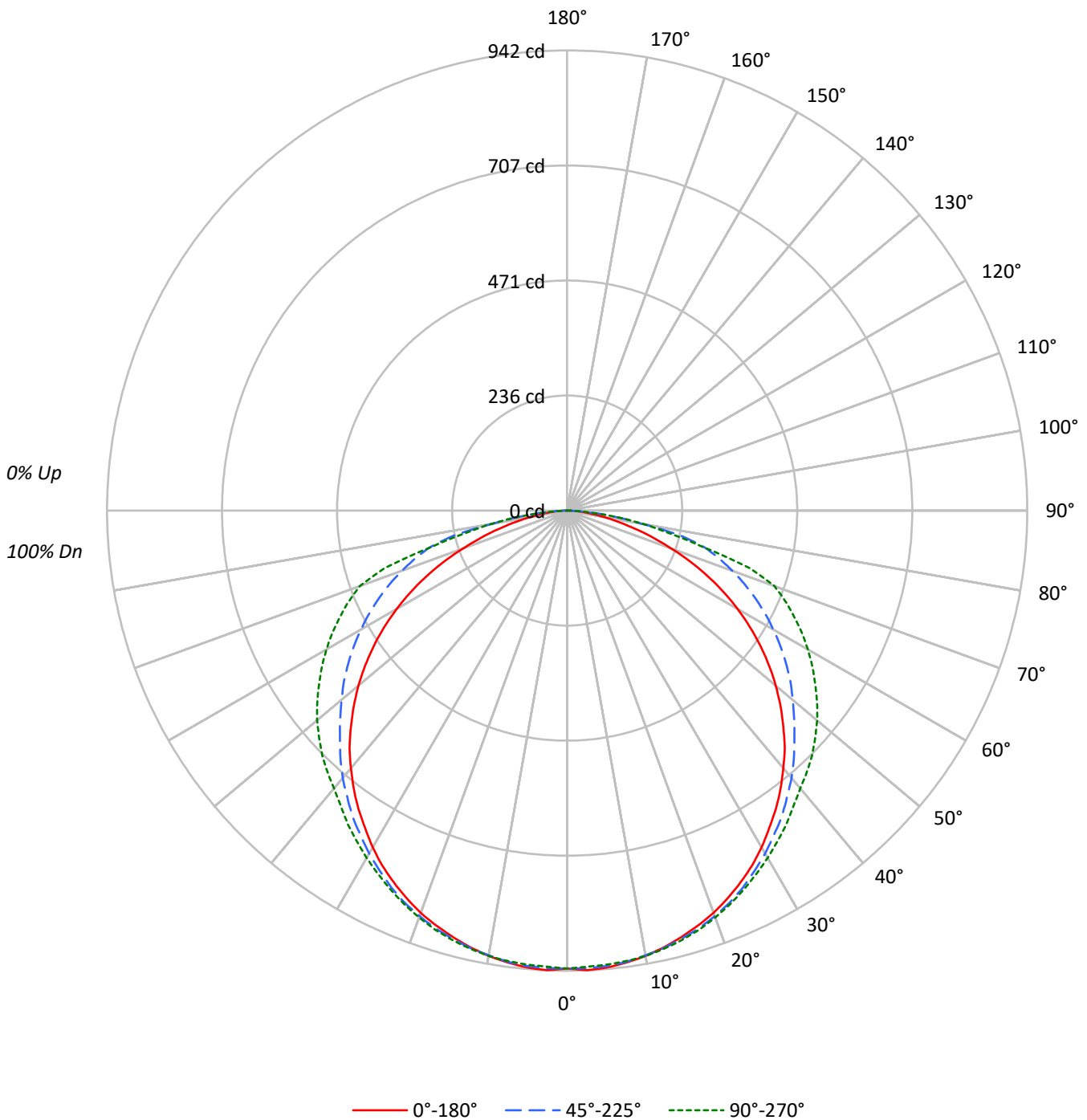
Input Watts (W): 35.991  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1261	1261	1261
5°	1268	1264	1260
10°	1265	1263	1265
15°	1259	1263	1267
20°	1255	1265	1269
25°	1247	1264	1271
30°	1237	1260	1275
35°	1224	1258	1286
40°	1209	1255	1304
45°	1191	1252	1349
50°	1167	1261	1398
55°	1134	1284	1455
60°	1085	1312	1531
65°	1010	1353	1631
70°	893	1414	1775
75°	749	1513	1490
80°	597	1196	1241
85°	472	809	741



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.9	3.0
10°-20°	255.9	8.7
20°-30°	390.8	13.2
30°-40°	477.8	16.2
40°-50°	511.4	17.3
50°-60°	490.6	16.6
60°-70°	414.2	14.0
70°-80°	264.7	9.0
80°-90°	62.6	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°	735.6	24.9
0°-40°	1213.4	41.0
0°-60°	2215.4	74.9
0°-90°	2957.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2957.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	937	937	937	937	937	
5°	939	933	936	934	933	89
15°	904	901	907	910	910	255
25°	840	838	852	854	856	387
35°	745	751	766	776	783	466
45°	626	636	658	688	709	483
55°	483	499	547	597	620	431
65°	317	348	425	485	512	313
75°	144	205	291	297	287	155
85°	31	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°	937.4	937.4	937.4	937.4	937.4
2.5°	941.8	935.9	937.4	937.4	934.5
5°	938.8	933.0	935.9	934.5	933.0
7.5°	933.0	928.7	931.6	931.6	930.1
10°	925.7	921.4	924.3	925.7	925.7
12.5°	915.6	912.6	917.0	917.0	918.5
15°	903.9	901.0	906.8	909.7	909.7
17.5°	890.8	889.4	896.6	898.1	899.5
20°	876.3	874.8	883.5	883.5	886.4
22.5°	858.8	857.3	869.0	869.0	871.9
25°	839.9	838.4	851.5	854.4	855.9
27.5°	819.5	818.0	831.1	835.5	838.4
30°	796.2	796.2	810.8	816.6	820.9
32.5°	770.0	774.4	787.5	796.2	802.0
35°	745.3	751.1	765.6	775.8	783.1
37.5°	717.6	723.4	739.4	752.5	761.3
40°	688.5	695.8	714.7	729.2	742.3
42.5°	659.4	666.7	687.0	708.9	726.3
45°	625.9	636.1	657.9	688.5	708.9
47.5°	592.4	602.6	630.3	668.1	688.5
50°	557.5	569.1	602.6	646.3	668.1
52.5°	521.1	534.2	576.4	623.0	644.8
55°	483.3	499.3	547.3	596.8	620.1
57.5°	444.0	461.4	518.2	570.6	595.3
60°	403.2	425.0	487.6	542.9	569.1
62.5°	361.0	387.2	457.1	513.8	541.5
65°	317.3	347.9	425.0	484.7	512.4
67.5°	272.2	312.9	393.0	455.6	483.3
70°	227.1	275.1	359.5	423.6	451.2
72.5°	184.9	240.2	326.0	385.7	391.6
75°	144.1	205.2	291.1	296.9	286.7
77.5°	107.7	170.3	240.2	214.0	212.5
80°	77.1	136.8	154.3	158.7	160.1
82.5°	50.9	103.3	100.4	103.3	101.9
85°	30.6	50.9	52.4	50.9	48.0
87.5°	14.6	18.9	14.6	13.1	11.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)