

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: P263830

Luminaire Tested: **24CZ-LD5-55-RDP-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263830  
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-LD5-55-RDP-UNV-L92765-W2A1-U-6500K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (336) 90 CRI LEDS TUNED AT 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3661.0 lumens  
Efficiency: N/A  
Efficacy: 87.3 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

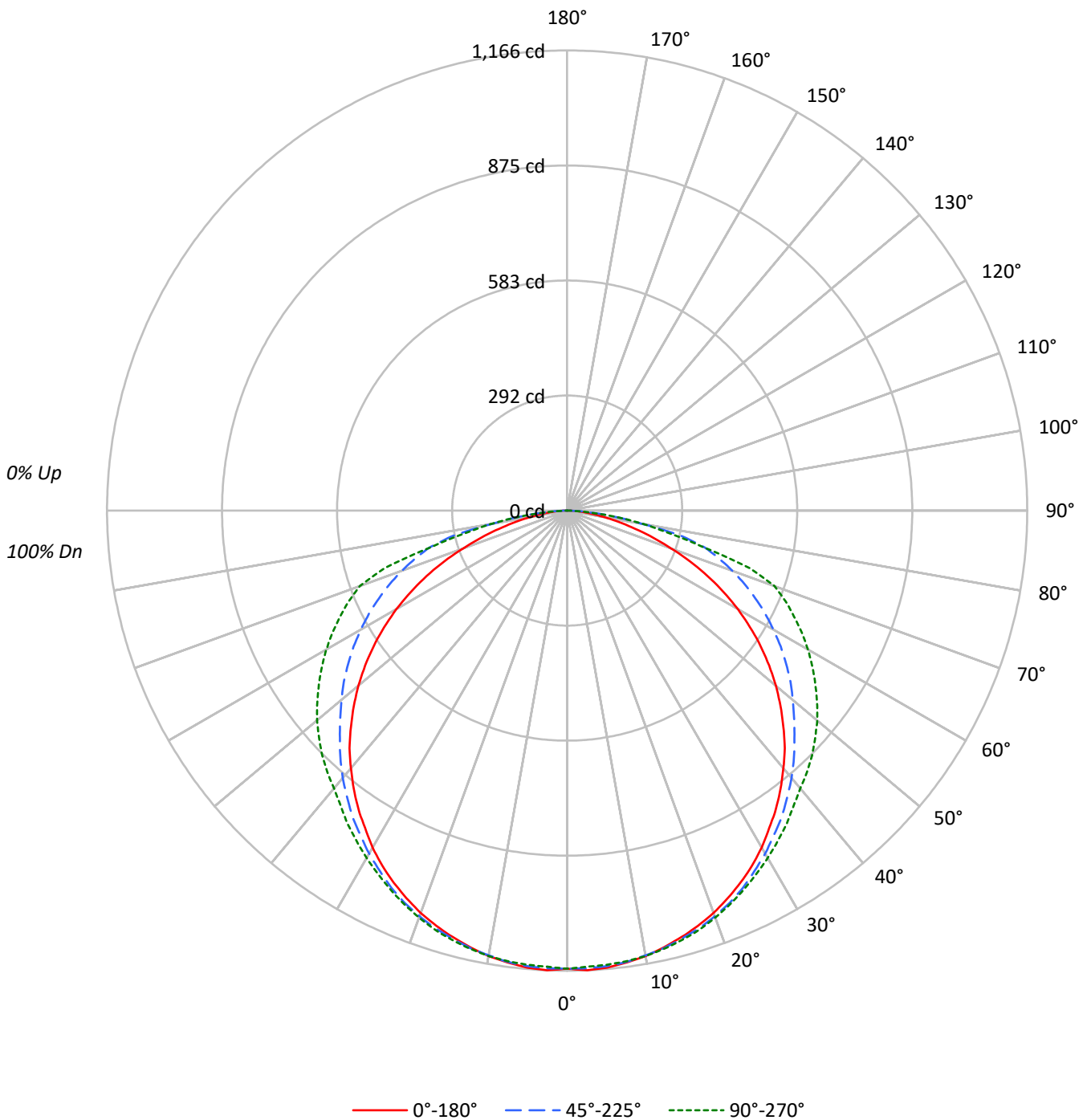
Input Watts (W): 41.943  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1562	1562	1562
5°	1570	1565	1560
10°	1566	1563	1566
15°	1559	1564	1569
20°	1553	1566	1571
25°	1544	1565	1573
30°	1532	1560	1579
35°	1516	1557	1592
40°	1497	1554	1614
45°	1474	1550	1670
50°	1445	1562	1732
55°	1403	1590	1801
60°	1343	1625	1896
65°	1251	1675	2019
70°	1106	1751	2198
75°	927	1874	1845
80°	740	1480	1536
85°	584	1002	919



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	110.1	3.0
10°-20°	316.8	8.7
20°-30°	483.9	13.2
30°-40°	591.6	16.2
40°-50°	633.2	17.3
50°-60°	607.4	16.6
60°-70°	512.8	14.0
70°-80°	327.8	9.0
80°-90°	77.5	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°	910.7	24.9
0°-40°	1502.3	41.0
0°-60°	2742.9	74.9
0°-90°	3661.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3661.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1161	1161	1161	1161	1161	
5°	1162	1155	1159	1157	1155	110
15°	1119	1116	1123	1126	1126	316
25°	1040	1038	1054	1058	1060	479
35°	923	930	948	960	970	577
45°	775	788	815	852	878	598
55°	598	618	678	739	768	534
65°	393	431	526	600	634	387
75°	178	254	360	368	355	192
85°	38	63	65	63	60	45
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1160.6	1160.6	1160.6	1160.6	1160.6
2.5°	1166.0	1158.8	1160.6	1160.6	1157.0
5°	1162.4	1155.2	1158.8	1157.0	1155.2
7.5°	1155.2	1149.8	1153.4	1153.4	1151.6
10°	1146.2	1140.7	1144.3	1146.2	1146.2
12.5°	1133.5	1129.9	1135.3	1135.3	1137.1
15°	1119.1	1115.5	1122.7	1126.3	1126.3
17.5°	1102.9	1101.1	1110.1	1111.9	1113.7
20°	1084.9	1083.1	1093.9	1093.9	1097.5
22.5°	1063.3	1061.5	1075.9	1075.9	1079.5
25°	1039.8	1038.0	1054.2	1057.8	1059.6
27.5°	1014.6	1012.8	1029.0	1034.4	1038.0
30°	985.8	985.8	1003.8	1011.0	1016.4
32.5°	953.3	958.7	974.9	985.8	993.0
35°	922.7	929.9	947.9	960.5	969.5
37.5°	888.4	895.7	915.5	931.7	942.5
40°	852.4	861.4	884.8	902.9	919.1
42.5°	816.4	825.4	850.6	877.6	899.3
45°	774.9	787.5	814.6	852.4	877.6
47.5°	733.5	746.1	780.3	827.2	852.4
50°	690.2	704.6	746.1	800.1	827.2
52.5°	645.2	661.4	713.6	771.3	798.3
55°	598.3	618.1	677.6	738.9	767.7
57.5°	549.6	571.3	641.6	706.4	737.1
60°	499.2	526.2	603.7	672.2	704.6
62.5°	446.9	479.4	565.9	636.1	670.4
65°	392.9	430.7	526.2	600.1	634.3
67.5°	337.0	387.5	486.6	564.1	598.3
70°	281.1	340.6	445.1	524.4	558.7
72.5°	228.9	297.4	403.7	477.6	484.8
75°	178.4	254.1	360.4	367.6	355.0
77.5°	133.4	210.8	297.4	264.9	263.1
80°	95.5	169.4	191.0	196.4	198.2
82.5°	63.1	128.0	124.3	128.0	126.1
85°	37.8	63.1	64.9	63.1	59.5
87.5°	18.0	23.4	18.0	16.2	14.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)