

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: P263695

Luminaire Tested: **24CZ-LD5-55-RDP-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263695  
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-L82765-W2A1-U-6500K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (336) 80 CRI LEDS TUNED AT 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4032.0 lumens  
Efficiency: N/A  
Efficacy: 96.3 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

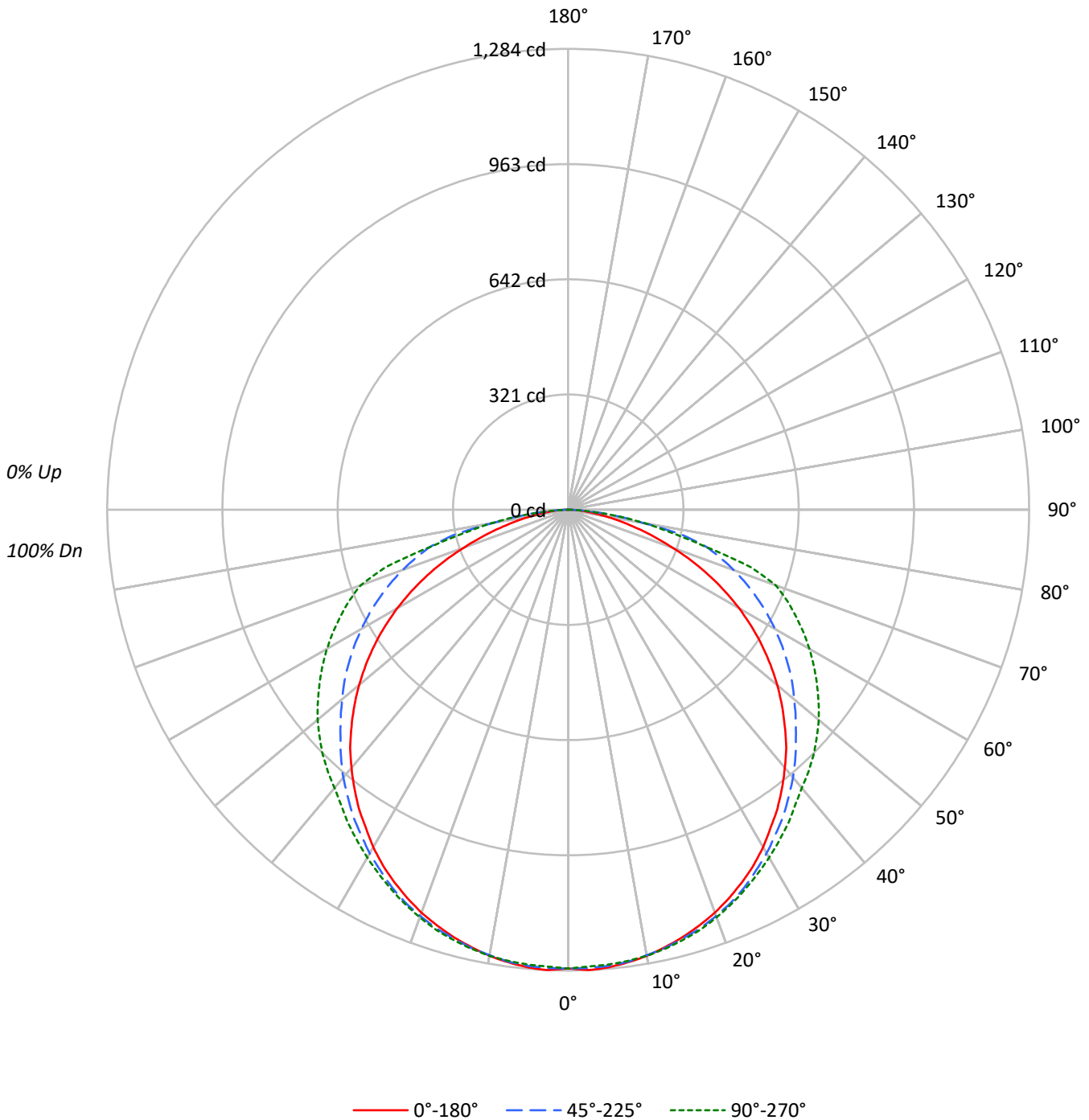
Input Watts (W): 41.85  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1720	1720	1720
5°	1729	1724	1718
10°	1725	1722	1725
15°	1717	1722	1728
20°	1711	1725	1731
25°	1700	1724	1733
30°	1687	1718	1739
35°	1669	1715	1754
40°	1649	1712	1778
45°	1624	1707	1839
50°	1591	1720	1907
55°	1546	1751	1983
60°	1480	1789	2088
65°	1378	1845	2224
70°	1218	1928	2421
75°	1022	2063	2033
80°	815	1630	1691
85°	644	1104	1011



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	121.2	3.0
10°-20°	348.9	8.7
20°-30°	532.9	13.2
30°-40°	651.5	16.2
40°-50°	697.4	17.3
50°-60°	668.9	16.6
60°-70°	564.8	14.0
70°-80°	361.0	9.0
80°-90°	85.4	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°	1003.0	24.9
0°-40°	1654.6	41.0
0°-60°	3020.9	74.9
0°-90°	4032.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4032.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1278	1278	1278	1278	1278	
5°	1280	1272	1276	1274	1272	122
15°	1232	1229	1236	1240	1240	348
25°	1145	1143	1161	1165	1167	528
35°	1016	1024	1044	1058	1068	635
45°	853	867	897	939	967	658
55°	659	681	746	814	846	588
65°	433	474	580	661	699	427
75°	196	280	397	405	391	212
85°	42	70	72	70	66	50
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1278.2	1278.2	1278.2	1278.2	1278.2
2.5°	1284.1	1276.2	1278.2	1278.2	1274.2
5°	1280.2	1272.2	1276.2	1274.2	1272.2
7.5°	1272.2	1266.3	1270.2	1270.2	1268.3
10°	1262.3	1256.3	1260.3	1262.3	1262.3
12.5°	1248.4	1244.4	1250.4	1250.4	1252.4
15°	1232.5	1228.6	1236.5	1240.5	1240.5
17.5°	1214.7	1212.7	1222.6	1224.6	1226.6
20°	1194.8	1192.8	1204.7	1204.7	1208.7
22.5°	1171.0	1169.0	1184.9	1184.9	1188.9
25°	1145.2	1143.2	1161.1	1165.0	1167.0
27.5°	1117.4	1115.4	1133.3	1139.2	1143.2
30°	1085.7	1085.7	1105.5	1113.4	1119.4
32.5°	1049.9	1055.9	1073.7	1085.7	1093.6
35°	1016.2	1024.1	1044.0	1057.9	1067.8
37.5°	978.5	986.4	1008.3	1026.1	1038.0
40°	938.8	948.7	974.5	994.4	1012.2
42.5°	899.1	909.0	936.8	966.6	990.4
45°	853.4	867.3	897.1	938.8	966.6
47.5°	807.8	821.7	859.4	911.0	938.8
50°	760.2	776.0	821.7	881.2	911.0
52.5°	710.5	728.4	786.0	849.5	879.2
55°	658.9	680.8	746.3	813.7	845.5
57.5°	605.3	629.2	706.6	778.0	811.8
60°	549.8	579.5	664.9	740.3	776.0
62.5°	492.2	527.9	623.2	700.6	738.3
65°	432.7	474.4	579.5	660.9	698.6
67.5°	371.1	426.7	535.9	621.2	658.9
70°	309.6	375.1	490.2	577.6	615.3
72.5°	252.1	327.5	444.6	526.0	533.9
75°	196.5	279.8	396.9	404.9	391.0
77.5°	146.9	232.2	327.5	291.8	289.8
80°	105.2	186.6	210.4	216.3	218.3
82.5°	69.5	140.9	136.9	140.9	138.9
85°	41.7	69.5	71.5	69.5	65.5
87.5°	19.8	25.8	19.8	17.9	15.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)