

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: P263724

Luminaire Tested: **24CZ-LD5-75-RDP-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263724  
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-LD5-75-RDP-UNV-L82765-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: 4946.0 lumens  
Efficiency: N/A  
Efficacy: 85.2 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

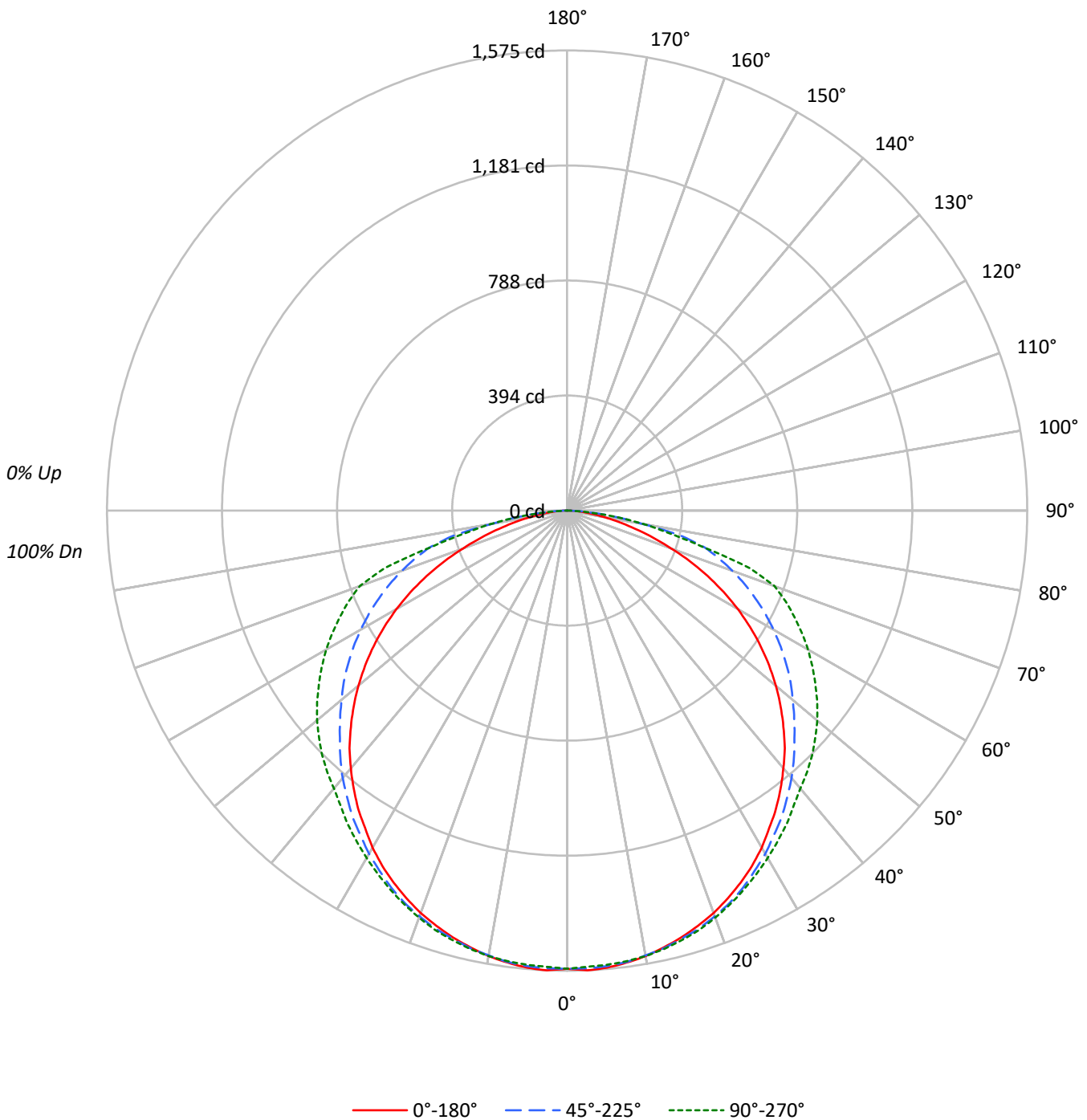
Input Watts (W): 58.032  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2110	2110	2110
5°	2121	2114	2108
10°	2115	2112	2115
15°	2106	2113	2120
20°	2099	2116	2123
25°	2086	2114	2125
30°	2069	2107	2133
35°	2047	2103	2151
40°	2023	2100	2181
45°	1992	2094	2256
50°	1952	2110	2339
55°	1896	2147	2433
60°	1815	2195	2562
65°	1690	2263	2728
70°	1494	2366	2969
75°	1253	2531	2493
80°	1000	2000	2075
85°	789	1352	1240



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	148.7	3.0
10°-20°	428.0	8.7
20°-30°	653.7	13.2
30°-40°	799.2	16.2
40°-50°	855.5	17.3
50°-60°	820.6	16.6
60°-70°	692.8	14.0
70°-80°	442.8	9.0
80°-90°	104.7	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°	1230.4	24.9
0°-40°	2029.6	41.0
0°-60°	3705.7	74.9
0°-90°	4946.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4946.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1568	1568	1568	1568	1568	
5°	1570	1561	1566	1563	1561	149
15°	1512	1507	1517	1522	1522	427
25°	1405	1402	1424	1429	1432	647
35°	1246	1256	1281	1298	1310	779
45°	1047	1064	1100	1152	1186	807
55°	808	835	915	998	1037	721
65°	531	582	711	811	857	523
75°	241	343	487	497	480	259
85°	51	85	88	85	80	61
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1567.9	1567.9	1567.9	1567.9	1567.9
2.5°	1575.2	1565.5	1567.9	1567.9	1563.1
5°	1570.4	1560.6	1565.5	1563.1	1560.6
7.5°	1560.6	1553.3	1558.2	1558.2	1555.7
10°	1548.4	1541.1	1546.0	1548.4	1548.4
12.5°	1531.4	1526.5	1533.8	1533.8	1536.3
15°	1511.9	1507.1	1516.8	1521.7	1521.7
17.5°	1490.0	1487.6	1499.8	1502.2	1504.6
20°	1465.7	1463.2	1477.8	1477.8	1482.7
22.5°	1436.5	1434.0	1453.5	1453.5	1458.4
25°	1404.8	1402.4	1424.3	1429.1	1431.6
27.5°	1370.7	1368.3	1390.2	1397.5	1402.4
30°	1331.8	1331.8	1356.1	1365.8	1373.2
32.5°	1287.9	1295.2	1317.2	1331.8	1341.5
35°	1246.5	1256.3	1280.6	1297.7	1309.8
37.5°	1200.3	1210.0	1236.8	1258.7	1273.3
40°	1151.6	1163.8	1195.4	1219.8	1241.7
42.5°	1102.9	1115.1	1149.2	1185.7	1214.9
45°	1046.9	1063.9	1100.5	1151.6	1185.7
47.5°	990.9	1008.0	1054.2	1117.5	1151.6
50°	932.5	952.0	1008.0	1081.0	1117.5
52.5°	871.6	893.5	964.1	1042.0	1078.6
55°	808.3	835.1	915.4	998.2	1037.2
57.5°	742.6	771.8	866.7	954.4	995.8
60°	674.4	710.9	815.6	908.1	952.0
62.5°	603.8	647.6	764.5	859.4	905.7
65°	530.8	581.9	710.9	810.7	857.0
67.5°	455.3	523.5	657.4	762.0	808.3
70°	379.8	460.2	601.4	708.5	754.7
72.5°	309.2	401.7	545.4	645.2	654.9
75°	241.0	343.3	486.9	496.7	479.6
77.5°	180.2	284.9	401.7	357.9	355.5
80°	129.0	228.9	258.1	265.4	267.8
82.5°	85.2	172.9	168.0	172.9	170.4
85°	51.1	85.2	87.6	85.2	80.3
87.5°	24.3	31.7	24.3	21.9	19.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)