

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: P263719

Luminaire Tested: **24CZ-LD5-70-RDP-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263719  
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-LD5-70-RDP-UNV-L82765-W2A1-U-5000K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS  
Light Source: (336) 80 CRI LEDS TUNED AT 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5046.0 lumens  
Efficiency: N/A  
Efficacy: 91.8 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

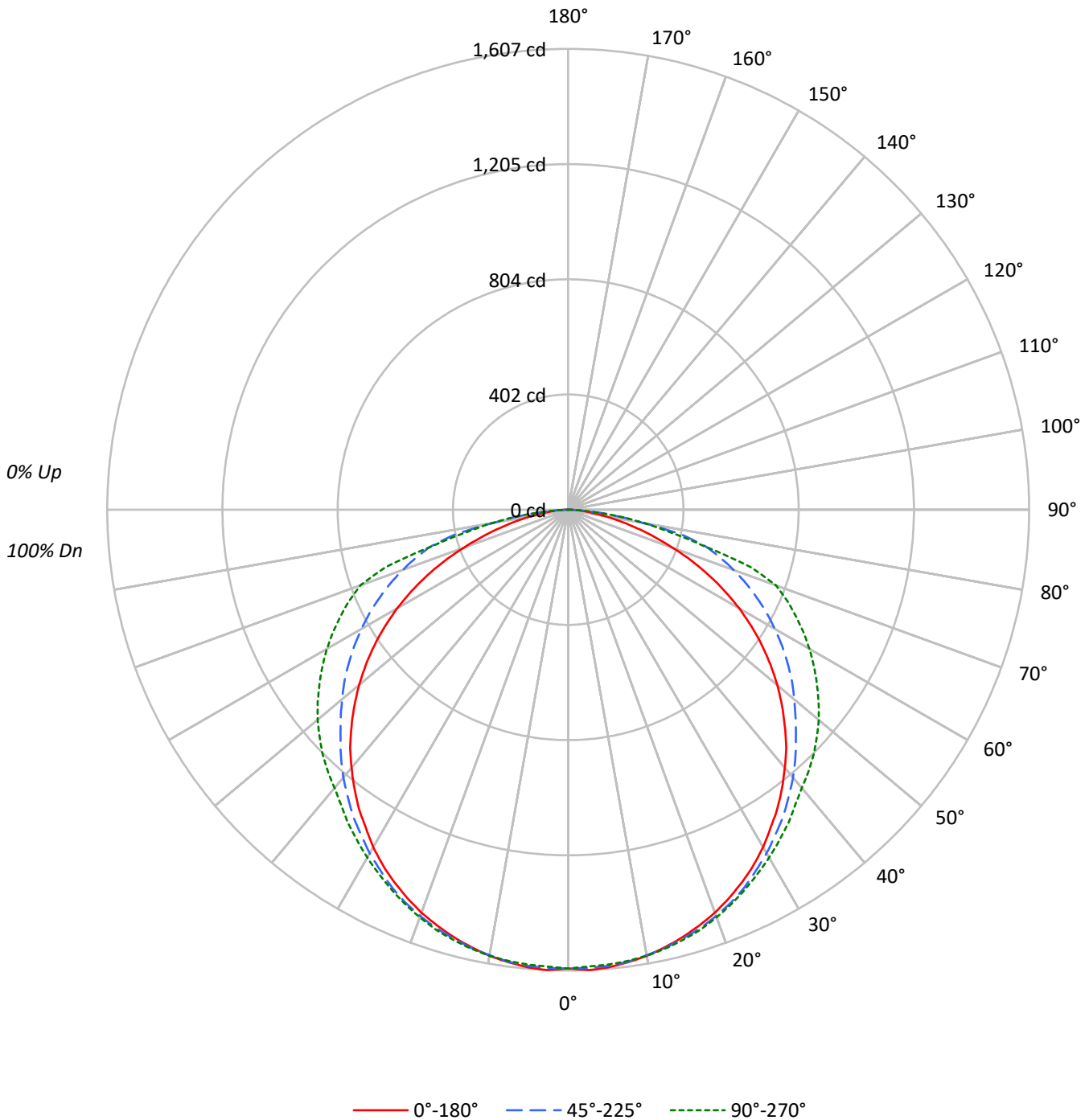
Input Watts (W): 54.963  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2152	2152	2152
5°	2164	2157	2150
10°	2158	2155	2158
15°	2149	2156	2162
20°	2141	2159	2166
25°	2128	2157	2168
30°	2111	2149	2176
35°	2089	2146	2195
40°	2064	2142	2225
45°	2032	2136	2302
50°	1991	2152	2386
55°	1935	2191	2482
60°	1851	2239	2613
65°	1724	2309	2784
70°	1524	2413	3029
75°	1278	2583	2544
80°	1020	2040	2117
85°	806	1380	1266



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	151.7	3.0
10°-20°	436.6	8.7
20°-30°	666.9	13.2
30°-40°	815.4	16.2
40°-50°	872.8	17.3
50°-60°	837.1	16.6
60°-70°	706.8	14.0
70°-80°	451.7	9.0
80°-90°	106.8	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°	1255.3	24.9
0°-40°	2070.7	41.0
0°-60°	3780.6	74.9
0°-90°	5046.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5046.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1600	1600	1600	1600	1600	
5°	1602	1592	1597	1595	1592	152
15°	1542	1538	1548	1552	1552	435
25°	1433	1431	1453	1458	1460	661
35°	1272	1282	1306	1324	1336	795
45°	1068	1086	1123	1175	1210	824
55°	825	852	934	1018	1058	736
65°	542	594	725	827	874	534
75°	246	350	497	507	489	265
85°	52	87	89	87	82	62
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1599.6	1599.6	1599.6	1599.6	1599.6
2.5°	1607.1	1597.1	1599.6	1599.6	1594.7
5°	1602.1	1592.2	1597.1	1594.7	1592.2
7.5°	1592.2	1584.7	1589.7	1589.7	1587.2
10°	1579.8	1572.3	1577.3	1579.8	1579.8
12.5°	1562.4	1557.4	1564.8	1564.8	1567.3
15°	1542.5	1537.5	1547.5	1552.4	1552.4
17.5°	1520.1	1517.7	1530.1	1532.6	1535.0
20°	1495.3	1492.8	1507.7	1507.7	1512.7
22.5°	1465.5	1463.0	1482.9	1482.9	1487.8
25°	1433.2	1430.7	1453.1	1458.0	1460.5
27.5°	1398.4	1395.9	1418.3	1425.8	1430.7
30°	1358.7	1358.7	1383.5	1393.5	1400.9
32.5°	1314.0	1321.4	1343.8	1358.7	1368.6
35°	1271.8	1281.7	1306.5	1323.9	1336.3
37.5°	1224.6	1234.5	1261.8	1284.2	1299.1
40°	1174.9	1187.3	1219.6	1244.4	1266.8
42.5°	1125.2	1137.6	1172.4	1209.7	1239.5
45°	1068.1	1085.5	1122.7	1174.9	1209.7
47.5°	1010.9	1028.3	1075.5	1140.1	1174.9
50°	951.3	971.2	1028.3	1102.8	1140.1
52.5°	889.2	911.6	983.6	1063.1	1100.4
55°	824.7	852.0	933.9	1018.4	1058.1
57.5°	757.6	787.4	884.3	973.7	1015.9
60°	688.0	725.3	832.1	926.5	971.2
62.5°	616.0	660.7	779.9	876.8	924.0
65°	541.5	593.6	725.3	827.1	874.3
67.5°	464.5	534.0	670.6	777.5	824.7
70°	387.5	469.5	613.5	722.8	770.0
72.5°	315.5	409.8	556.4	658.2	668.2
75°	245.9	350.2	496.8	506.7	489.3
77.5°	183.8	290.6	409.8	365.1	362.6
80°	131.6	233.5	263.3	270.7	273.2
82.5°	86.9	176.4	171.4	176.4	173.9
85°	52.2	86.9	89.4	86.9	82.0
87.5°	24.8	32.3	24.8	22.4	19.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)