

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: P277151

Luminaire Tested: **24CZ2-50-RDP-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P277151  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1808-918-19)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ2-50-RDP-UNV-L92765-W2A1-U-6500K  
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3020.3 lumens  
Efficiency: N/A  
Efficacy: 72.7 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

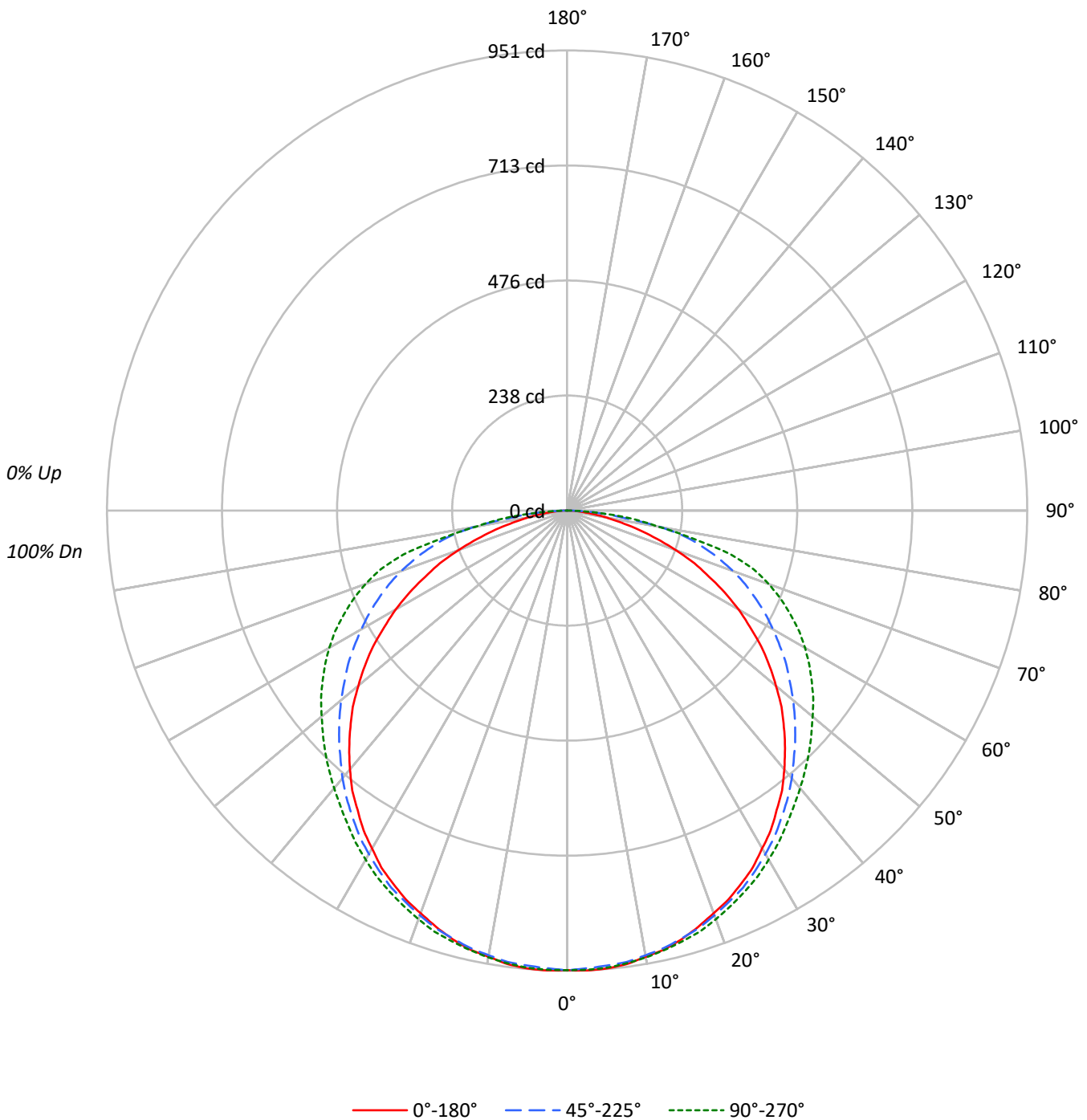
Input Watts (W): 41.571  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	100	96	92	96	93	89	92	89	87	88	86	84	82
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67
3	88	77	68	62	86	76	67	61	72	66	60	70	64	59	67	62	58	56
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49	47
5	74	60	51	44	72	59	51	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	45	38	51	44	38	50	43	37	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1278	1278	1278
5°	1283	1275	1281
10°	1279	1275	1281
15°	1277	1275	1283
20°	1268	1274	1287
25°	1263	1277	1290
30°	1252	1273	1294
35°	1240	1270	1299
40°	1226	1268	1316
45°	1206	1268	1345
50°	1179	1276	1386
55°	1149	1297	1448
60°	1101	1322	1528
65°	1030	1369	1621
70°	937	1432	1744
75°	794	1511	1823
80°	627	1520	1475
85°	463	1156	1295



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	90.1	3.0
10°-20°	259.3	8.6
20°-30°	396.5	13.1
30°-40°	484.7	16.0
40°-50°	516.6	17.1
50°-60°	494.0	16.4
60°-70°	418.4	13.9
70°-80°	281.2	9.3
80°-90°	79.3	2.6
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°	745.9	24.7
0°-40°	1230.6	40.7
0°-60°	2241.2	74.2
0°-90°	3020.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3020.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	950	950	950	950	950	
5°	950	948	944	948	948	90
15°	917	917	915	923	921	258
25°	851	854	860	867	869	392
35°	755	761	773	788	791	473
45°	634	644	667	695	707	489
55°	490	508	553	596	617	436
65°	324	356	430	487	509	321
75°	153	208	291	340	351	164
85°	30	61	75	81	84	37
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	949.8	949.8	949.8	949.8	949.8
2.5°	951.3	951.3	946.8	949.8	949.8
5°	949.8	948.3	943.8	948.3	948.3
7.5°	945.3	943.8	940.8	945.3	943.8
10°	936.3	936.3	933.3	937.8	937.8
12.5°	928.8	927.3	925.8	931.8	930.3
15°	916.8	916.8	915.3	922.8	921.3
17.5°	901.8	903.3	904.8	910.8	912.3
20°	885.4	888.4	889.9	898.8	898.8
22.5°	870.4	871.9	874.9	883.9	883.9
25°	850.9	853.9	859.9	867.4	868.9
27.5°	831.4	832.9	840.4	850.9	852.4
30°	806.0	810.5	819.5	831.4	832.9
32.5°	783.5	788.0	798.5	810.5	813.5
35°	755.0	761.0	773.0	788.0	791.0
37.5°	729.6	734.1	749.0	765.5	770.0
40°	698.1	707.1	722.1	741.6	749.0
42.5°	666.6	675.6	693.6	719.1	728.1
45°	633.7	644.2	666.6	695.1	707.1
47.5°	600.7	612.7	638.2	671.1	684.6
50°	563.3	578.3	609.7	647.2	662.2
52.5°	527.3	545.3	579.8	621.7	641.2
55°	489.9	507.8	552.8	596.2	617.2
57.5°	447.9	471.9	521.3	570.8	593.2
60°	409.0	431.4	491.4	545.3	567.8
62.5°	367.0	397.0	461.4	518.3	540.8
65°	323.6	356.5	429.9	486.9	509.3
67.5°	284.6	320.6	398.5	455.4	477.9
70°	238.2	283.1	364.0	421.0	443.4
72.5°	194.8	244.2	328.1	383.5	404.5
75°	152.8	208.2	290.6	340.1	350.6
77.5°	113.9	172.3	251.7	272.7	265.2
80°	80.9	137.8	196.2	185.8	190.3
82.5°	52.4	104.9	121.3	137.8	142.3
85°	30.0	61.4	74.9	80.9	83.9
87.5°	13.5	22.5	30.0	30.0	28.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)