

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: P276802

Luminaire Tested: **24CZ2-50-RDP-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P276802  
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-L83050-W2A1-U-3000K  
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3007.0 lumens  
Efficiency: N/A  
Efficacy: 75.9 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

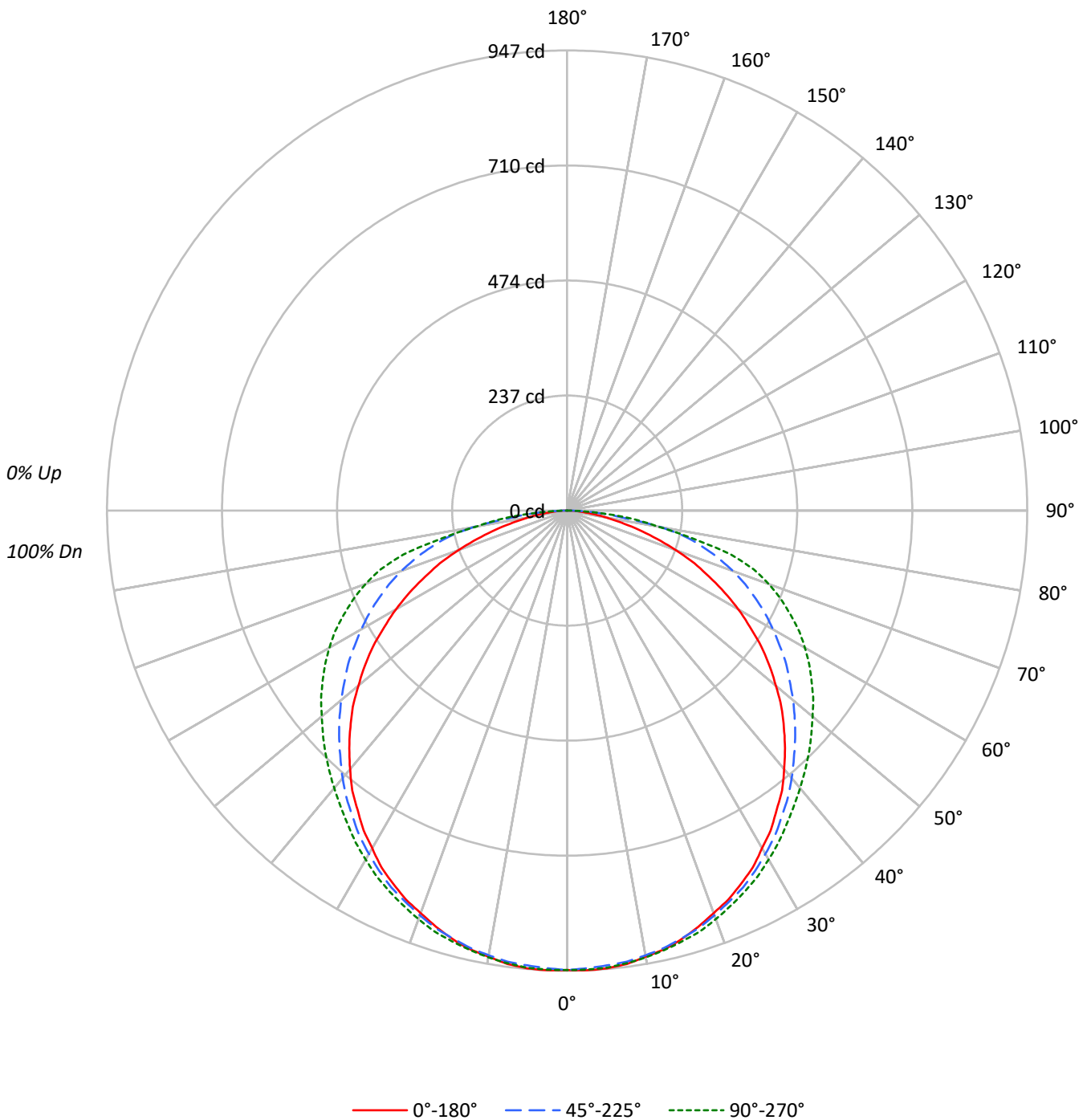
Input Watts (W): 39.631578  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	68	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°	1272	1272	1272
5°	1277	1269	1275
10°	1274	1270	1276
15°	1271	1269	1278
20°	1262	1269	1281
25°	1258	1271	1284
30°	1247	1268	1288
35°	1235	1264	1293
40°	1221	1263	1310
45°	1200	1263	1340
50°	1174	1271	1380
55°	1144	1291	1441
60°	1096	1316	1521
65°	1026	1363	1614
70°	933	1426	1737
75°	791	1504	1814
80°	624	1514	1468
85°	460	1152	1289



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	89.7	3.0
10°-20°	258.2	8.6
20°-30°	394.8	13.1
30°-40°	482.6	16.0
40°-50°	514.4	17.1
50°-60°	491.8	16.4
60°-70°	416.6	13.9
70°-80°	280.0	9.3
80°-90°	79.0	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°	742.6	24.7
0°-40°	1225.2	40.7
0°-60°	2231.4	74.2
0°-90°	3007.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3007.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	946	946	946	946	946	
5°	946	944	940	944	944	90
15°	913	913	911	919	917	257
25°	847	850	856	864	865	390
35°	752	758	770	784	788	471
45°	631	641	664	692	704	487
55°	488	506	550	594	614	434
65°	322	355	428	485	507	320
75°	152	207	289	339	349	163
85°	30	61	75	80	84	37
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	945.6	945.6	945.6	945.6	945.6
2.5°	947.1	947.1	942.6	945.6	945.6
5°	945.6	944.1	939.6	944.1	944.1
7.5°	941.1	939.6	936.7	941.1	939.6
10°	932.2	932.2	929.2	933.7	933.7
12.5°	924.7	923.2	921.8	927.7	926.2
15°	912.8	912.8	911.3	918.8	917.3
17.5°	897.9	899.4	900.9	906.8	908.3
20°	881.5	884.5	886.0	894.9	894.9
22.5°	866.6	868.1	871.0	880.0	880.0
25°	847.2	850.2	856.1	863.6	865.1
27.5°	827.8	829.3	836.7	847.2	848.7
30°	802.4	806.9	815.9	827.8	829.3
32.5°	780.1	784.5	795.0	806.9	809.9
35°	751.7	757.7	769.6	784.5	787.5
37.5°	726.4	730.8	745.8	762.2	766.6
40°	695.0	704.0	718.9	738.3	745.8
42.5°	663.7	672.7	690.6	715.9	724.9
45°	630.9	641.3	663.7	692.1	704.0
47.5°	598.1	610.0	635.4	668.2	681.6
50°	560.8	575.7	607.0	644.3	659.2
52.5°	525.0	542.9	577.2	619.0	638.4
55°	487.7	505.6	550.4	593.6	614.5
57.5°	446.0	469.8	519.0	568.3	590.6
60°	407.2	429.6	489.2	542.9	565.3
62.5°	365.4	395.2	459.4	516.1	538.4
65°	322.2	355.0	428.1	484.7	507.1
67.5°	283.4	319.2	396.7	453.4	475.8
70°	237.1	281.9	362.4	419.1	441.5
72.5°	193.9	243.1	326.6	381.8	402.7
75°	152.1	207.3	289.4	338.6	349.0
77.5°	113.4	171.5	250.6	271.5	264.0
80°	80.5	137.2	195.4	184.9	189.4
82.5°	52.2	104.4	120.8	137.2	141.7
85°	29.8	61.2	74.6	80.5	83.5
87.5°	13.4	22.4	29.8	29.8	28.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)