

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: P277009

Luminaire Tested: **24CZ2-50-RDP-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277009
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-L82765-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: 3004.4 lumens
Efficiency: N/A
Efficacy: 76.2 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

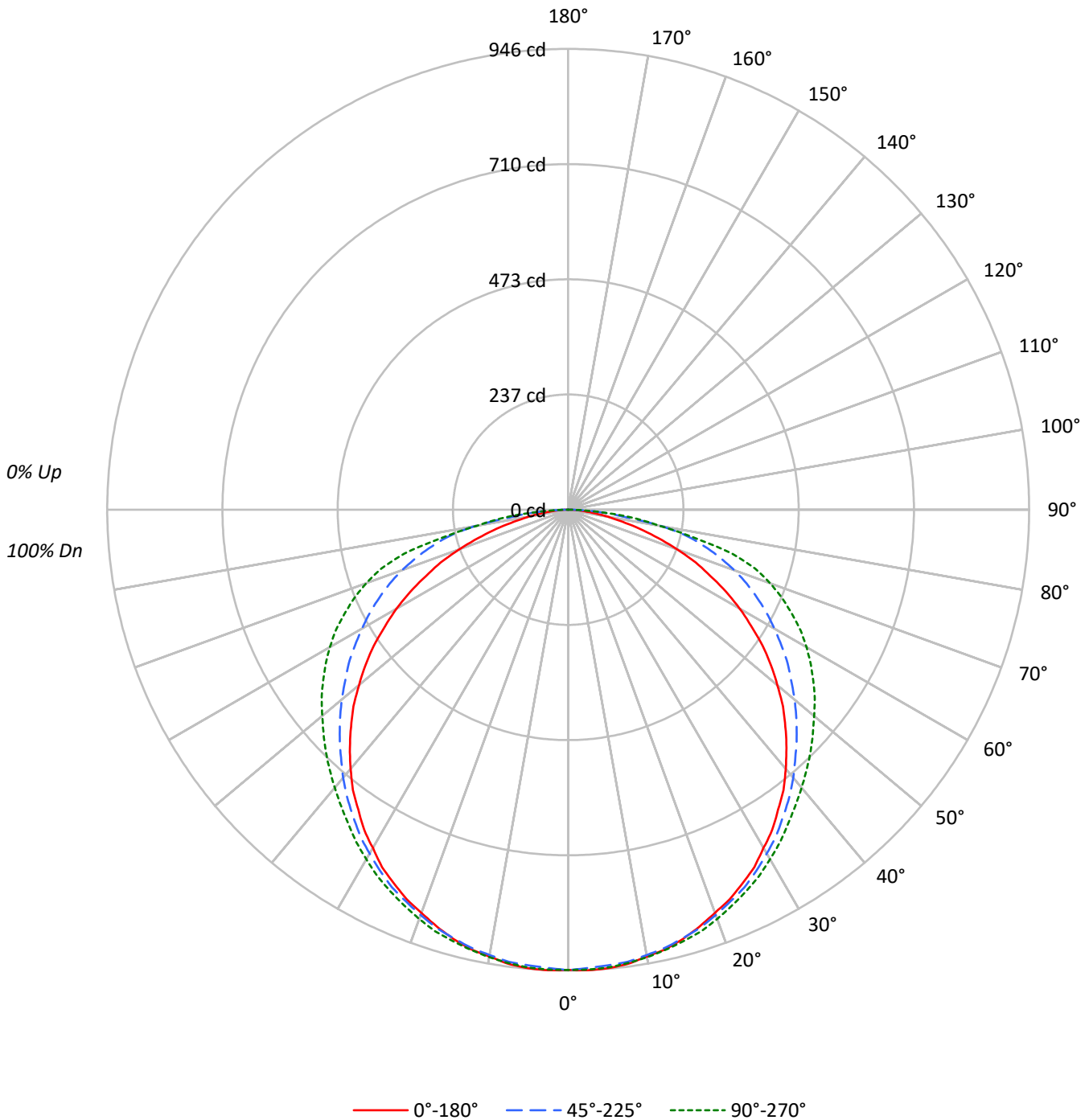
Input Watts (W): 39.432
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1271	1271	1271
5°	1276	1268	1274
10°	1273	1268	1275
15°	1270	1268	1277
20°	1261	1267	1280
25°	1257	1270	1283
30°	1246	1266	1287
35°	1234	1263	1292
40°	1220	1262	1309
45°	1200	1262	1338
50°	1173	1270	1379
55°	1143	1290	1440
60°	1095	1315	1520
65°	1025	1362	1613
70°	932	1424	1735
75°	790	1503	1813
80°	624	1512	1467
85°	460	1150	1289



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.6	3.0
10°-20°	257.9	8.6
20°-30°	394.4	13.1
30°-40°	482.2	16.0
40°-50°	513.9	17.1
50°-60°	491.4	16.4
60°-70°	416.2	13.9
70°-80°	279.8	9.3
80°-90°	78.9	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°	742.0	24.7
0°-40°	1224.2	40.7
0°-60°	2229.4	74.2
0°-90°	3004.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3004.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	945	945	945	945	945	
5°	945	943	939	943	943	90
15°	912	912	910	918	916	257
25°	846	849	855	863	864	390
35°	751	757	769	784	787	471
45°	630	641	663	691	703	486
55°	487	505	550	593	614	434
65°	322	355	428	484	507	320
75°	152	207	289	338	349	163
85°	30	61	74	80	84	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	944.8	944.8	944.8	944.8	944.8
2.5°	946.3	946.3	941.8	944.8	944.8
5°	944.8	943.3	938.8	943.3	943.3
7.5°	940.3	938.8	935.8	940.3	938.8
10°	931.4	931.4	928.4	932.9	932.9
12.5°	923.9	922.4	920.9	926.9	925.4
15°	912.0	912.0	910.5	918.0	916.5
17.5°	897.1	898.6	900.1	906.0	907.5
20°	880.7	883.7	885.2	894.1	894.1
22.5°	865.8	867.3	870.3	879.2	879.2
25°	846.4	849.4	855.4	862.8	864.3
27.5°	827.1	828.5	836.0	846.4	847.9
30°	801.7	806.2	815.1	827.1	828.5
32.5°	779.4	783.8	794.3	806.2	809.2
35°	751.1	757.0	768.9	783.8	786.8
37.5°	725.7	730.2	745.1	761.5	766.0
40°	694.4	703.4	718.3	737.6	745.1
42.5°	663.1	672.1	690.0	715.3	724.2
45°	630.4	640.8	663.1	691.4	703.4
47.5°	597.6	609.5	634.8	667.6	681.0
50°	560.3	575.2	606.5	643.8	658.7
52.5°	524.5	542.4	576.7	618.4	637.8
55°	487.3	505.2	549.9	593.1	614.0
57.5°	445.6	469.4	518.6	567.8	590.1
60°	406.8	429.2	488.8	542.4	564.8
62.5°	365.1	394.9	459.0	515.6	538.0
65°	321.9	354.7	427.7	484.3	506.7
67.5°	283.1	318.9	396.4	453.0	475.4
70°	236.9	281.6	362.1	418.7	441.1
72.5°	193.7	242.9	326.4	381.5	402.4
75°	152.0	207.1	289.1	338.3	348.7
77.5°	113.3	171.4	250.4	271.2	263.8
80°	80.5	137.1	195.2	184.8	189.3
82.5°	52.2	104.3	120.7	137.1	141.6
85°	29.8	61.1	74.5	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)