

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: P277015

Luminaire Tested: **24CZ2-50-RDP-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277015
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-5700K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3318.0 lumens
Efficiency: N/A
Efficacy: 81.3 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

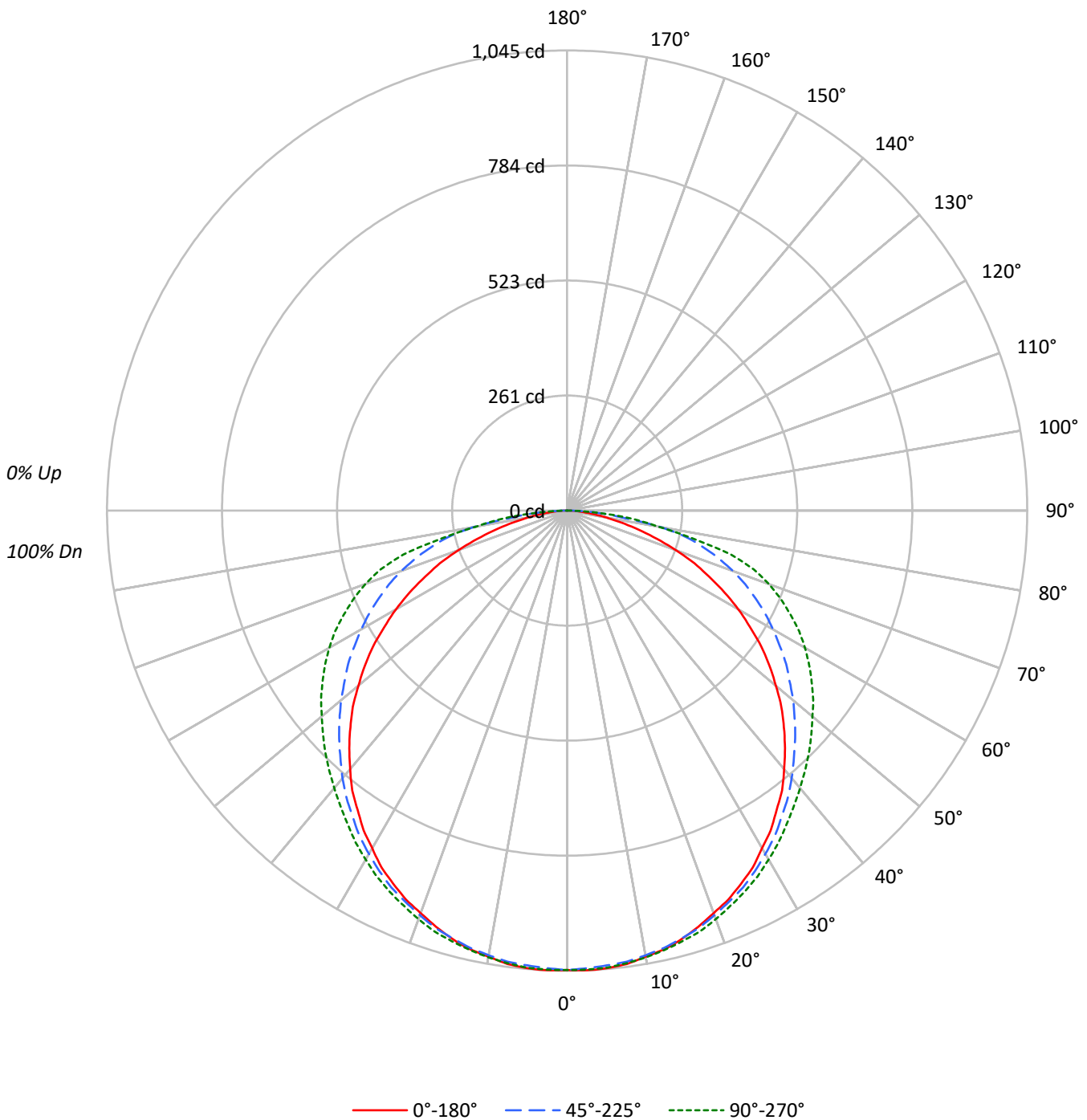
Input Watts (W): 40.827
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1404	1404	1404
5°	1409	1400	1407
10°	1405	1401	1408
15°	1403	1401	1410
20°	1393	1400	1414
25°	1388	1402	1417
30°	1376	1399	1422
35°	1362	1395	1427
40°	1347	1393	1445
45°	1325	1394	1478
50°	1295	1402	1523
55°	1263	1425	1591
60°	1209	1453	1678
65°	1132	1504	1782
70°	1030	1573	1916
75°	873	1660	2002
80°	689	1671	1619
85°	508	1271	1423



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.0	3.0
10°-20°	284.9	8.6
20°-30°	435.6	13.1
30°-40°	532.5	16.0
40°-50°	567.6	17.1
50°-60°	542.7	16.4
60°-70°	459.7	13.9
70°-80°	309.0	9.3
80°-90°	87.2	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°	819.4	24.7
0°-40°	1352.0	40.7
0°-60°	2462.2	74.2
0°-90°	3318.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3318.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1043	1043	1043	1043	1043	
5°	1043	1042	1037	1042	1042	99
15°	1007	1007	1006	1014	1012	284
25°	935	938	945	953	954	431
35°	830	836	849	866	869	520
45°	696	708	732	764	777	537
55°	538	558	607	655	678	479
65°	356	392	472	535	560	353
75°	168	229	319	374	385	180
85°	33	68	82	89	92	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1043.4	1043.4	1043.4	1043.4	1043.4
2.5°	1045.1	1045.1	1040.1	1043.4	1043.4
5°	1043.4	1041.8	1036.8	1041.8	1041.8
7.5°	1038.5	1036.8	1033.5	1038.5	1036.8
10°	1028.6	1028.6	1025.3	1030.3	1030.3
12.5°	1020.4	1018.7	1017.1	1023.7	1022.0
15°	1007.2	1007.2	1005.6	1013.8	1012.2
17.5°	990.8	992.4	994.0	1000.6	1002.3
20°	972.7	975.9	977.6	987.5	987.5
22.5°	956.2	957.8	961.1	971.0	971.0
25°	934.8	938.1	944.7	952.9	954.5
27.5°	913.4	915.1	923.3	934.8	936.4
30°	885.4	890.4	900.2	913.4	915.1
32.5°	860.7	865.7	877.2	890.4	893.7
35°	829.5	836.1	849.2	865.7	869.0
37.5°	801.5	806.4	822.9	841.0	845.9
40°	766.9	776.8	793.3	814.7	822.9
42.5°	732.4	742.2	762.0	790.0	799.8
45°	696.2	707.7	732.4	763.6	776.8
47.5°	660.0	673.1	701.1	737.3	752.1
50°	618.8	635.3	669.8	711.0	727.4
52.5°	579.3	599.1	636.9	683.0	704.4
55°	538.2	557.9	607.3	655.0	678.1
57.5°	492.1	518.4	572.7	627.0	651.7
60°	449.3	474.0	539.8	599.1	623.7
62.5°	403.2	436.1	506.9	569.4	594.1
65°	355.5	391.7	472.3	534.9	559.6
67.5°	312.7	352.2	437.8	500.3	525.0
70°	261.7	311.1	399.9	462.5	487.1
72.5°	214.0	268.3	360.4	421.3	444.4
75°	167.9	228.8	319.3	373.6	385.1
77.5°	125.1	189.3	276.5	299.5	291.3
80°	88.9	151.4	215.6	204.1	209.0
82.5°	57.6	115.2	133.3	151.4	156.3
85°	32.9	67.5	82.3	88.9	92.2
87.5°	14.8	24.7	32.9	32.9	31.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)