

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: P277008

Luminaire Tested: **24CZ2-50-RDP-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277008
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-2700K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2920.4 lumens
Efficiency: N/A
Efficacy: 73.5 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

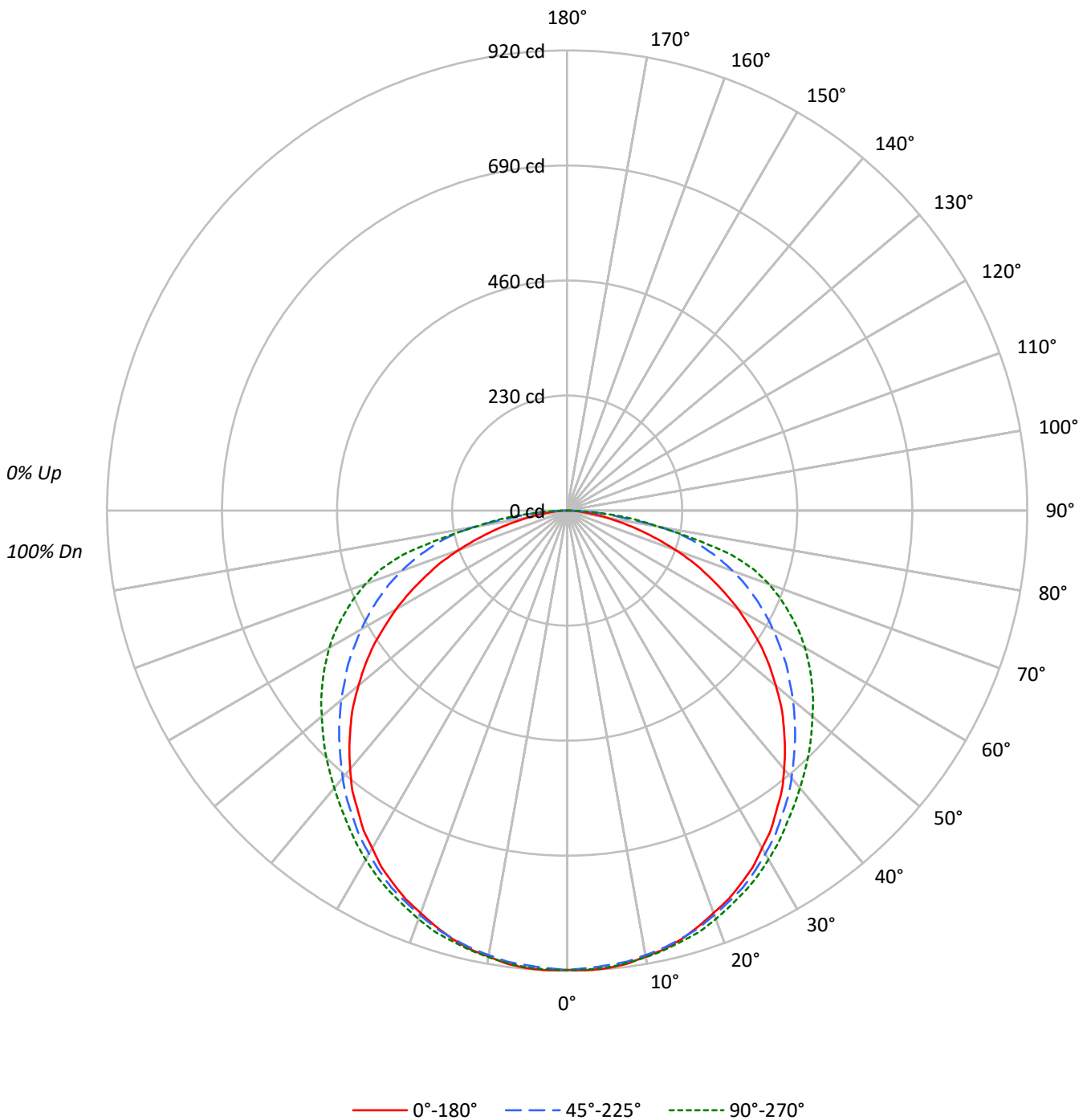
Input Watts (W): 39.711
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1236	1236	1236
5°	1240	1233	1238
10°	1237	1233	1239
15°	1235	1233	1241
20°	1226	1232	1244
25°	1222	1234	1247
30°	1211	1231	1251
35°	1199	1228	1256
40°	1186	1226	1272
45°	1166	1227	1301
50°	1140	1234	1340
55°	1111	1254	1400
60°	1064	1278	1477
65°	996	1323	1568
70°	906	1385	1687
75°	768	1461	1762
80°	606	1471	1426
85°	448	1118	1252



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.1	3.0
10°-20°	250.7	8.6
20°-30°	383.4	13.1
30°-40°	468.7	16.0
40°-50°	499.5	17.1
50°-60°	477.6	16.4
60°-70°	404.6	13.9
70°-80°	271.9	9.3
80°-90°	76.7	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°	721.2	24.7
0°-40°	1189.9	40.7
0°-60°	2167.1	74.2
0°-90°	2920.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2920.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	918	918	918	918	918	
5°	918	917	913	917	917	87
15°	886	886	885	892	891	250
25°	823	826	832	839	840	379
35°	730	736	747	762	765	457
45°	613	623	645	672	684	473
55°	474	491	534	576	597	422
65°	313	345	416	471	492	311
75°	148	201	281	329	339	158
85°	29	59	72	78	81	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	918.4	918.4	918.4	918.4	918.4
2.5°	919.8	919.8	915.5	918.4	918.4
5°	918.4	916.9	912.6	916.9	916.9
7.5°	914.0	912.6	909.7	914.0	912.6
10°	905.3	905.3	902.4	906.8	906.8
12.5°	898.1	896.6	895.2	901.0	899.5
15°	886.5	886.5	885.1	892.3	890.8
17.5°	872.0	873.5	874.9	880.7	882.2
20°	856.1	859.0	860.4	869.1	869.1
22.5°	841.6	843.0	845.9	854.6	854.6
25°	822.8	825.7	831.5	838.7	840.1
27.5°	803.9	805.4	812.6	822.8	824.2
30°	779.3	783.7	792.3	803.9	805.4
32.5°	757.6	761.9	772.1	783.7	786.6
35°	730.1	735.9	747.4	761.9	764.8
37.5°	705.4	709.8	724.3	740.2	744.5
40°	675.0	683.7	698.2	717.0	724.3
42.5°	644.6	653.3	670.7	695.3	704.0
45°	612.7	622.9	644.6	672.1	683.7
47.5°	580.9	592.5	617.1	648.9	662.0
50°	544.6	559.1	589.6	625.8	640.3
52.5°	509.9	527.3	560.6	601.1	620.0
55°	473.7	491.1	534.5	576.5	596.8
57.5°	433.1	456.3	504.1	551.9	573.6
60°	395.4	417.2	475.1	527.3	549.0
62.5°	354.9	383.9	446.1	501.2	522.9
65°	312.9	344.8	415.7	470.8	492.5
67.5°	275.2	310.0	385.3	440.4	462.1
70°	230.3	273.8	352.0	407.0	428.8
72.5°	188.3	236.1	317.2	370.8	391.1
75°	147.8	201.3	281.0	328.8	339.0
77.5°	110.1	166.6	243.4	263.6	256.4
80°	78.2	133.3	189.8	179.6	184.0
82.5°	50.7	101.4	117.3	133.3	137.6
85°	29.0	59.4	72.4	78.2	81.1
87.5°	13.0	21.7	29.0	29.0	27.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)