

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: P277136

Luminaire Tested: **24CZ2-45-RDP-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277136
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: 24CZ2-45-RDP-UNV-L92765-W2A1-U-3500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2467.3 lumens
Efficiency: N/A
Efficacy: 70.4 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

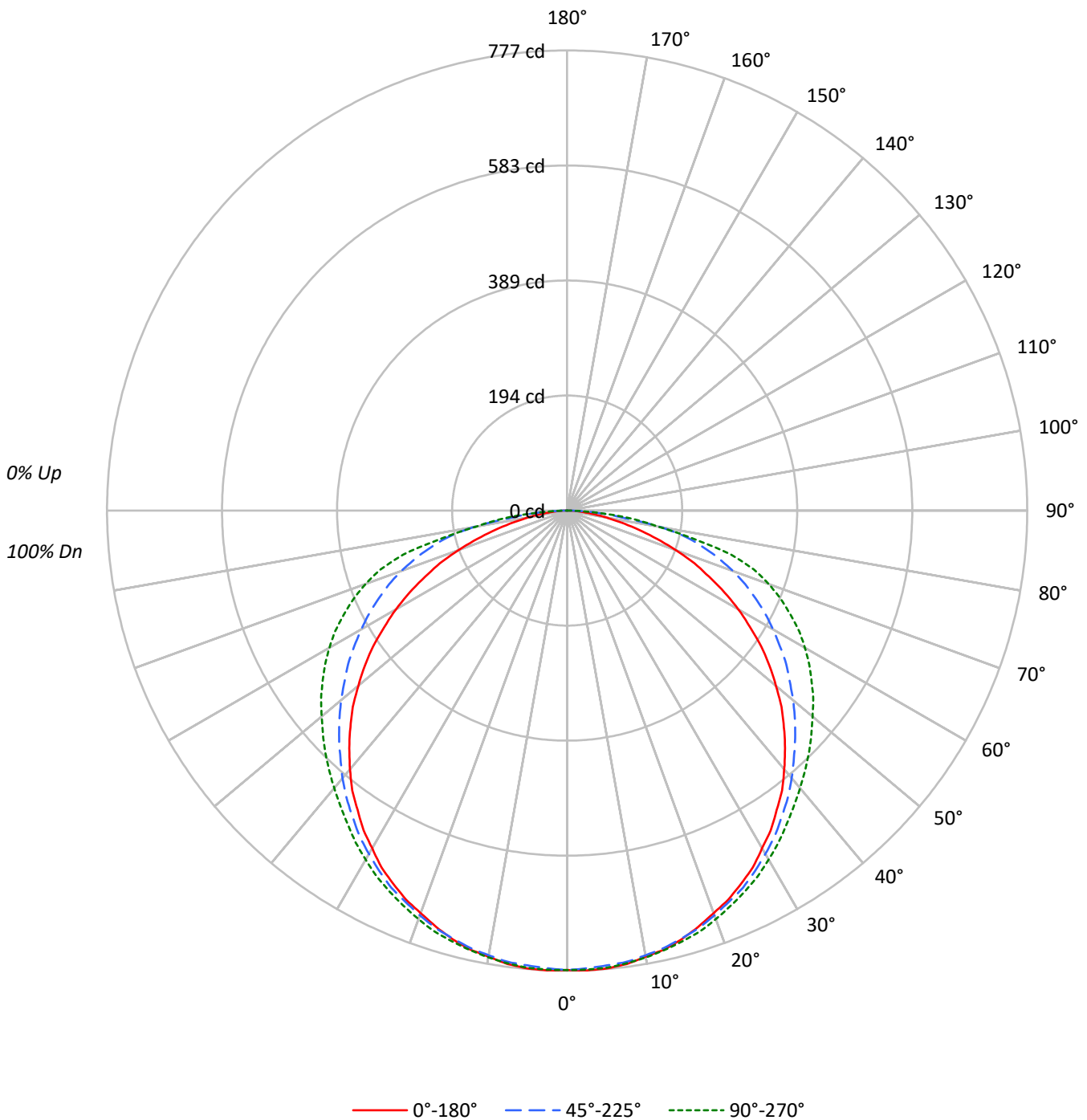
Input Watts (W): 35.061
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P277136

CATALOG NUMBER: 24CZ2-45-RDP-UNV-L92765-W2A1-U-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P277136

CATALOG NUMBER: 24CZ2-45-RDP-UNV-L92765-W2A1-U-3500K

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°	1044	1044	1044
5°	1048	1041	1046
10°	1045	1042	1047
15°	1043	1042	1048
20°	1036	1041	1051
25°	1032	1043	1054
30°	1023	1040	1057
35°	1013	1037	1061
40°	1002	1036	1075
45°	985	1036	1099
50°	963	1043	1132
55°	939	1059	1183
60°	899	1080	1248
65°	841	1118	1325
70°	766	1170	1425
75°	649	1234	1489
80°	512	1242	1204
85°	378	945	1057



TEST NUMBER: P277136

CATALOG NUMBER: 24CZ2-45-RDP-UNV-L92765-W2A1-U-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.6	3.0
10°-20°	211.8	8.6
20°-30°	323.9	13.1
30°-40°	396.0	16.0
40°-50°	422.1	17.1
50°-60°	403.5	16.4
60°-70°	341.8	13.9
70°-80°	229.7	9.3
80°-90°	64.8	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°	609.4	24.7
0°-40°	1005.4	40.7
0°-60°	1831.0	74.2
0°-90°	2467.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2467.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	776	776	776	776	776	
5°	776	775	771	775	775	74
15°	749	749	748	754	753	211
25°	695	698	702	709	710	320
35°	617	622	632	644	646	386
45°	518	526	545	568	578	399
55°	400	415	452	487	504	356
65°	264	291	351	398	416	262
75°	125	170	237	278	286	134
85°	24	50	61	66	68	30
90°	0	0	0	0	0	



TEST NUMBER: P277136

CATALOG NUMBER: 24CZ2-45-RDP-UNV-L92765-W2A1-U-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	775.9	775.9	775.9	775.9	775.9
2.5°	777.1	777.1	773.5	775.9	775.9
5°	775.9	774.7	771.0	774.7	774.7
7.5°	772.2	771.0	768.6	772.2	771.0
10°	764.9	764.9	762.5	766.1	766.1
12.5°	758.8	757.6	756.3	761.2	760.0
15°	749.0	749.0	747.8	753.9	752.7
17.5°	736.8	738.0	739.2	744.1	745.3
20°	723.3	725.7	727.0	734.3	734.3
22.5°	711.0	712.3	714.7	722.1	722.1
25°	695.1	697.6	702.5	708.6	709.8
27.5°	679.2	680.5	686.6	695.1	696.4
30°	658.4	662.1	669.4	679.2	680.5
32.5°	640.1	643.7	652.3	662.1	664.5
35°	616.8	621.7	631.5	643.7	646.2
37.5°	596.0	599.7	611.9	625.4	629.1
40°	570.3	577.7	589.9	605.8	611.9
42.5°	544.6	552.0	566.6	587.4	594.8
45°	517.7	526.3	544.6	567.9	577.7
47.5°	490.8	500.5	521.4	548.3	559.3
50°	460.2	472.4	498.1	528.7	540.9
52.5°	430.8	445.5	473.6	507.9	523.8
55°	400.2	414.9	451.6	487.1	504.2
57.5°	365.9	385.5	425.9	466.3	484.6
60°	334.1	352.5	401.4	445.5	463.8
62.5°	299.8	324.3	376.9	423.4	441.8
65°	264.3	291.3	351.2	397.7	416.1
67.5°	232.5	261.9	325.5	372.0	390.4
70°	194.6	231.3	297.4	343.9	362.3
72.5°	159.1	199.5	268.0	313.3	330.4
75°	124.8	170.1	237.4	277.8	286.4
77.5°	93.0	140.7	205.6	222.7	216.6
80°	66.1	112.6	160.3	151.8	155.4
82.5°	42.8	85.7	99.1	112.6	116.3
85°	24.5	50.2	61.2	66.1	68.5
87.5°	11.0	18.4	24.5	24.5	23.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)