

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: P275436

Luminaire Tested: **14CZ2-35-UNV-L93050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275436
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-49)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-35-UNV-L93050-W2A1-U-4500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3255.0 lumens
Efficiency: N/A
Efficacy: 114.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

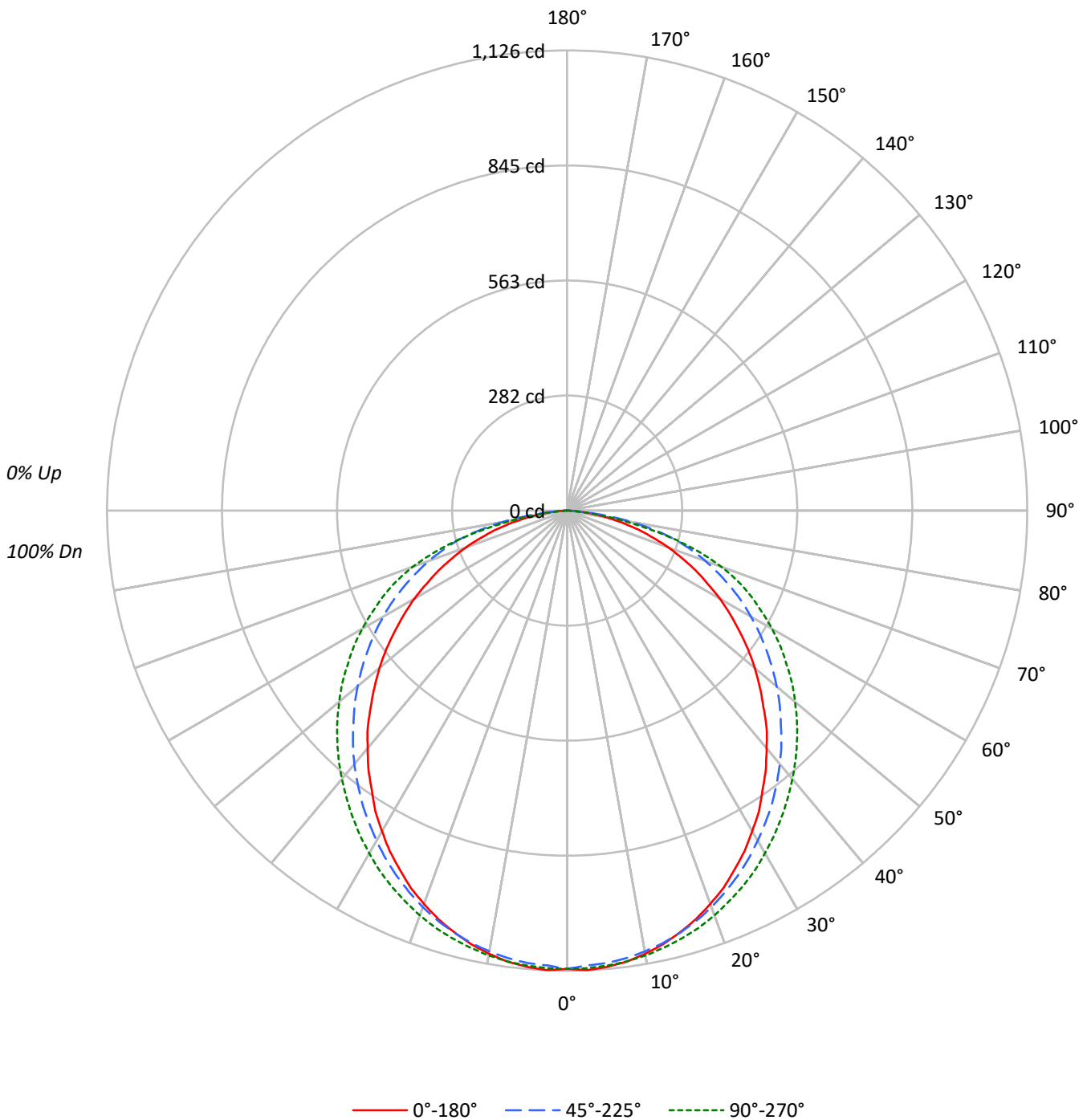
Input Watts (W): 28.551
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P275436

CATALOG NUMBER: 14CZ2-35-UNV-L93050-W2A1-U-4500K

Luminous Intensity Polar Plot





TEST NUMBER: P275436

CATALOG NUMBER: 14CZ2-35-UNV-L93050-W2A1-U-4500K

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	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	37	30	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3018	3018	3018
5°	3027	3002	3019
10°	3008	2993	3020
15°	2976	2978	3019
20°	2933	2958	3018
25°	2877	2929	3015
30°	2815	2898	3008
35°	2739	2873	3007
40°	2667	2845	3011
45°	2585	2815	3027
50°	2510	2802	3048
55°	2414	2792	3075
60°	2328	2797	3117
65°	2209	2805	3166
70°	2073	2827	3164
75°	1879	2853	2860
80°	1540	2462	2036
85°	1142	1164	469



TEST NUMBER: P275436

CATALOG NUMBER: 14CZ2-35-UNV-L93050-W2A1-U-4500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.1	3.3
10°-20°	303.1	9.3
20°-30°	456.6	14.0
30°-40°	547.9	16.8
40°-50°	571.1	17.5
50°-60°	528.7	16.2
60°-70°	427.2	13.1
70°-80°	260.5	8.0
80°-90°	53.8	1.7
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°	865.8	26.6
0°-40°	1413.8	43.4
0°-60°	2513.6	77.2
0°-90°	3255.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3255.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1121	1121	1121	1121	1121	
5°	1121	1118	1111	1119	1118	106
15°	1068	1069	1069	1084	1084	301
25°	969	975	986	1011	1015	447
35°	834	847	875	906	915	522
45°	679	700	740	781	796	525
55°	515	541	595	642	655	461
65°	347	381	441	485	497	343
75°	181	221	274	279	275	190
85°	37	55	38	21	15	45
90°	0	0	0	0	0	



TEST NUMBER: P275436

CATALOG NUMBER: 14CZ2-35-UNV-L93050-W2A1-U-4500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1121.4	1121.4	1121.4	1121.4	1121.4
2.5°	1125.7	1122.1	1114.1	1122.1	1120.6
5°	1120.6	1117.7	1111.2	1119.2	1117.7
7.5°	1113.4	1110.5	1104.7	1114.1	1112.6
10°	1101.0	1099.6	1095.2	1106.1	1105.4
12.5°	1086.5	1085.8	1083.6	1096.0	1095.2
15°	1068.4	1069.1	1069.1	1083.6	1083.6
17.5°	1048.1	1049.5	1052.4	1068.4	1070.6
20°	1024.1	1027.0	1032.8	1051.0	1053.9
22.5°	999.4	1001.6	1010.3	1032.1	1035.0
25°	968.9	974.7	986.4	1011.0	1015.4
27.5°	939.9	945.0	961.0	986.4	993.6
30°	905.8	913.8	932.7	960.2	968.2
32.5°	873.1	881.8	903.6	935.6	942.8
35°	833.9	847.0	874.6	906.5	915.2
37.5°	798.4	810.7	841.9	876.8	886.9
40°	759.2	774.4	810.0	847.0	857.2
42.5°	722.9	737.4	775.9	813.6	827.4
45°	679.3	699.7	739.6	781.0	795.5
47.5°	639.4	659.8	705.5	749.7	762.8
50°	599.5	621.3	669.2	714.9	728.0
52.5°	558.1	581.4	632.9	678.6	693.9
55°	514.6	541.4	595.2	641.6	655.4
57.5°	473.2	500.8	558.1	605.3	619.1
60°	432.6	460.9	519.7	564.7	579.2
62.5°	387.6	421.0	481.9	526.2	537.1
65°	346.9	381.0	440.6	484.8	497.2
67.5°	304.1	341.1	400.6	441.3	452.9
70°	263.5	301.9	359.3	397.0	402.1
72.5°	219.9	259.1	317.2	341.1	341.1
75°	180.7	220.6	274.4	278.7	275.1
77.5°	137.9	182.2	217.0	208.3	199.6
80°	99.4	143.0	158.9	143.0	131.4
82.5°	66.8	103.8	95.8	76.2	67.5
85°	37.0	55.2	37.7	21.0	15.2
87.5°	13.8	12.3	3.6	3.6	3.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)