

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: P275440

Luminaire Tested: **14CZ2-39-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275440
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: 14CZ2-39-UNV-L93050-W2A1-U-4000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3531.0 lumens
Efficiency: N/A
Efficacy: 111.0 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

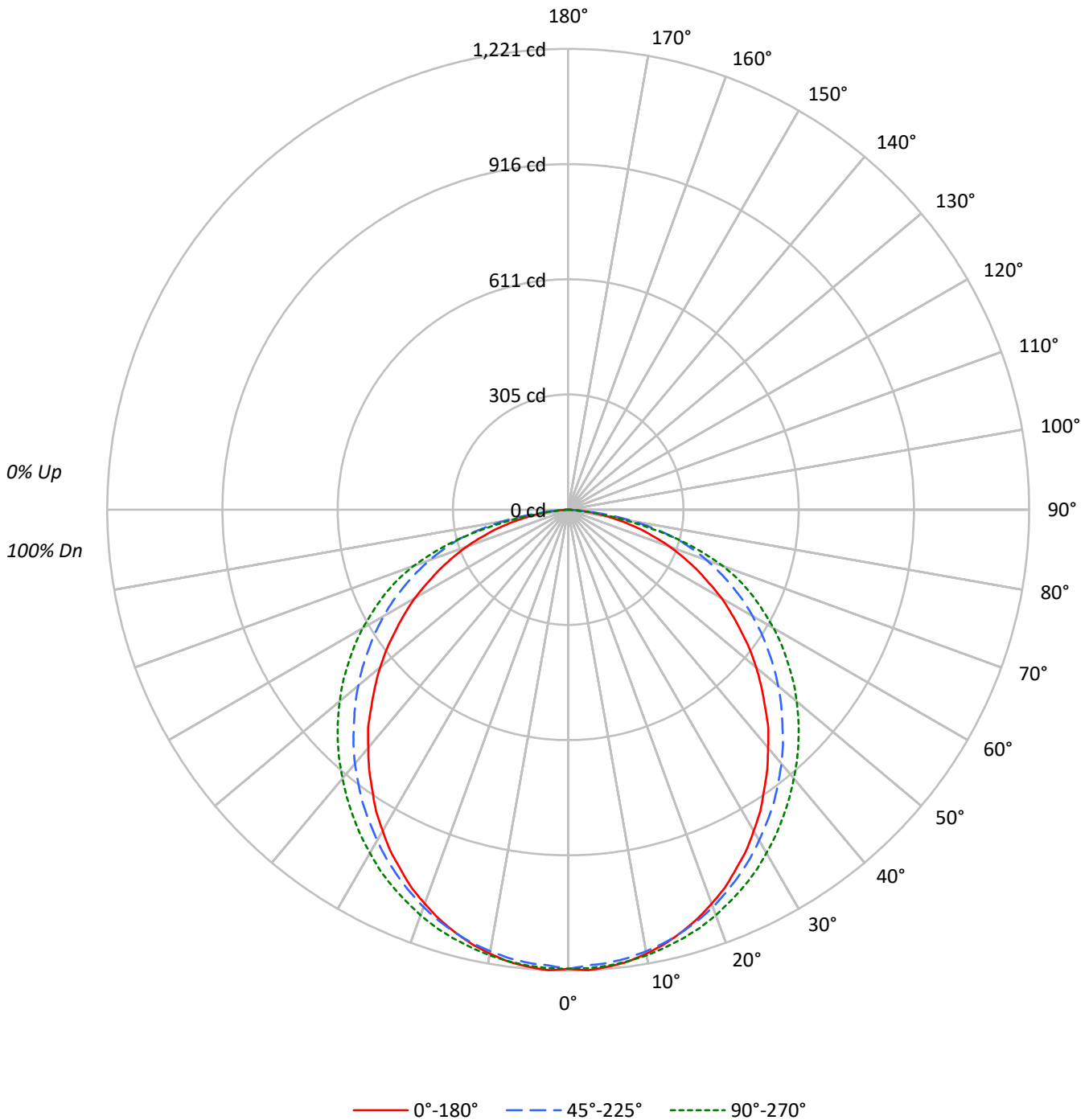
Input Watts (W): 31.806
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P275440

CATALOG NUMBER: 14CZ2-39-UNV-L93050-W2A1-U-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P275440

CATALOG NUMBER: 14CZ2-39-UNV-L93050-W2A1-U-4000K

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°	3273	3273	3273
5°	3284	3256	3275
10°	3264	3246	3277
15°	3229	3231	3275
20°	3181	3208	3274
25°	3121	3177	3271
30°	3053	3144	3264
35°	2972	3117	3261
40°	2893	3087	3266
45°	2805	3053	3284
50°	2722	3039	3306
55°	2619	3029	3336
60°	2526	3034	3381
65°	2396	3043	3434
70°	2249	3066	3432
75°	2038	3094	3103
80°	1672	2672	2208
85°	1241	1263	509



TEST NUMBER: P275440

CATALOG NUMBER: 14CZ2-39-UNV-L93050-W2A1-U-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.1	3.3
10°-20°	328.8	9.3
20°-30°	495.3	14.0
30°-40°	594.4	16.8
40°-50°	619.5	17.5
50°-60°	573.5	16.2
60°-70°	463.4	13.1
70°-80°	282.5	8.0
80°-90°	58.3	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°	939.3	26.6
0°-40°	1533.7	43.4
0°-60°	2726.7	77.2
0°-90°	3531.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3531.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1216	1216	1216	1216	1216	
5°	1216	1212	1205	1214	1212	115
15°	1159	1160	1160	1176	1176	327
25°	1051	1057	1070	1097	1102	484
35°	905	919	949	983	993	567
45°	737	759	802	847	863	570
55°	558	587	646	696	711	500
65°	376	413	478	526	539	372
75°	196	239	298	302	298	206
85°	40	60	41	23	16	49
90°	0	0	0	0	0	



TEST NUMBER: P275440

CATALOG NUMBER: 14CZ2-39-UNV-L93050-W2A1-U-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1216.4	1216.4	1216.4	1216.4	1216.4
2.5°	1221.2	1217.2	1208.6	1217.2	1215.7
5°	1215.7	1212.5	1205.4	1214.1	1212.5
7.5°	1207.8	1204.6	1198.3	1208.6	1207.0
10°	1194.4	1192.8	1188.1	1199.9	1199.1
12.5°	1178.6	1177.9	1175.5	1188.9	1188.1
15°	1159.0	1159.8	1159.8	1175.5	1175.5
17.5°	1136.9	1138.5	1141.6	1159.0	1161.3
20°	1110.9	1114.1	1120.4	1140.1	1143.2
22.5°	1084.2	1086.5	1096.0	1119.6	1122.7
25°	1051.1	1057.4	1070.0	1096.8	1101.5
27.5°	1019.6	1025.1	1042.4	1070.0	1077.9
30°	982.6	991.3	1011.7	1041.7	1050.3
32.5°	947.2	956.6	980.2	1014.9	1022.8
35°	904.7	918.8	948.7	983.4	992.8
37.5°	866.1	879.5	913.3	951.1	962.1
40°	823.6	840.1	878.7	918.8	929.8
42.5°	784.2	799.9	841.7	882.6	897.6
45°	737.0	759.0	802.3	847.2	862.9
47.5°	693.6	715.7	765.3	813.3	827.5
50°	650.3	674.0	725.9	775.5	789.7
52.5°	605.5	630.7	686.6	736.2	752.7
55°	558.2	587.4	645.6	696.0	711.0
57.5°	513.3	543.3	605.5	656.6	671.6
60°	469.3	500.0	563.7	612.6	628.3
62.5°	420.4	456.7	522.8	570.8	582.6
65°	376.3	413.4	477.9	525.9	539.3
67.5°	329.9	370.1	434.6	478.7	491.3
70°	285.8	327.5	389.7	430.7	436.2
72.5°	238.6	281.1	344.1	370.1	370.1
75°	196.0	239.4	297.6	302.3	298.4
77.5°	149.6	197.6	235.4	226.0	216.5
80°	107.9	155.1	172.4	155.1	142.5
82.5°	72.4	112.6	103.9	82.7	73.2
85°	40.2	59.8	40.9	22.8	16.5
87.5°	15.0	13.4	3.9	3.9	3.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)