

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: P275409

Luminaire Tested: **14CZ2-39-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275409
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-L83050-W2A1-U-3500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3846.0 lumens
Efficiency: N/A
Efficacy: 124.2 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

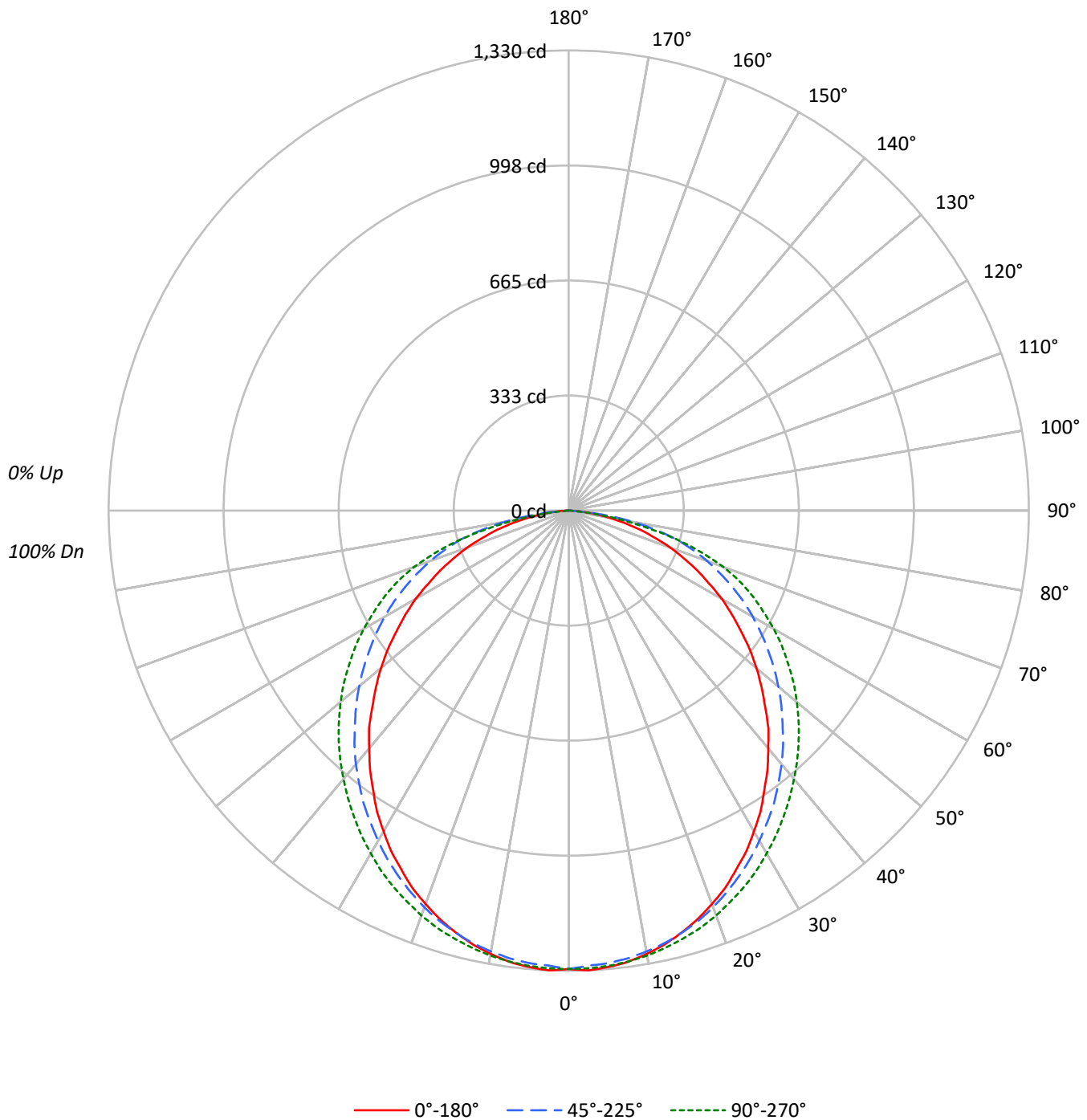
Input Watts (W): 30.969
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P275409

CATALOG NUMBER: 14CZ2-39-UNV-L83050-W2A1-U-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P275409

CATALOG NUMBER: 14CZ2-39-UNV-L83050-W2A1-U-3500K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	109	104	99	95	106	101	97	94		97	94	91		93	90	88		90	87	85
2	98	90	83	77	96	88	82	76		84	79	74		81	77	73		78	74	71
3	89	79	70	64	87	77	69	63		74	67	62		71	66	61		69	64	60
4	82	70	61	54	79	68	60	53		66	58	53		63	57	52		61	56	51
5	75	62	53	46	73	61	52	46		59	51	45		57	50	45		55	49	44
6	69	56	47	40	67	55	46	40		53	45	40		51	44	39		50	44	39
7	64	51	42	35	63	50	41	35		48	41	35		47	40	35		45	39	34
8	60	46	37	32	58	45	37	31		44	37	31		43	36	31		42	35	31
9	56	42	34	28	54	42	34	28		41	33	28		39	33	28		38	32	28
10	52	39	31	26	51	39	31	26		37	30	26		37	30	25		36	30	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3566	3566	3566
5°	3577	3547	3568
10°	3555	3536	3569
15°	3517	3519	3567
20°	3465	3495	3566
25°	3399	3460	3562
30°	3326	3424	3555
35°	3237	3395	3552
40°	3151	3362	3558
45°	3055	3326	3577
50°	2966	3310	3601
55°	2852	3299	3633
60°	2751	3305	3683
65°	2610	3315	3740
70°	2449	3340	3738
75°	2220	3371	3379
80°	1821	2910	2405
85°	1349	1377	556



TEST NUMBER: P275409

CATALOG NUMBER: 14CZ2-39-UNV-L83050-W2A1-U-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.4	3.3
10°-20°	358.1	9.3
20°-30°	539.5	14.0
30°-40°	647.4	16.8
40°-50°	674.8	17.5
50°-60°	624.7	16.2
60°-70°	504.7	13.1
70°-80°	307.8	8.0
80°-90°	63.5	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°	1023.0	26.6
0°-40°	1670.5	43.4
0°-60°	2970.0	77.2
0°-90°	3846.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3846.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1325	1325	1325	1325	1325	
5°	1324	1321	1313	1322	1321	126
15°	1262	1263	1263	1280	1280	356
25°	1145	1152	1165	1195	1200	528
35°	985	1001	1033	1071	1081	617
45°	803	827	874	923	940	620
55°	608	640	703	758	774	545
65°	410	450	521	573	587	405
75°	214	261	324	329	325	224
85°	44	65	45	25	18	54
90°	0	0	0	0	0	



TEST NUMBER: P275409

CATALOG NUMBER: 14CZ2-39-UNV-L83050-W2A1-U-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1325.0	1325.0	1325.0	1325.0	1325.0
2.5°	1330.1	1325.8	1316.4	1325.8	1324.1
5°	1324.1	1320.7	1313.0	1322.4	1320.7
7.5°	1315.5	1312.1	1305.2	1316.4	1314.7
10°	1300.9	1299.2	1294.1	1307.0	1306.1
12.5°	1283.8	1282.9	1280.4	1294.9	1294.1
15°	1262.4	1263.2	1263.2	1280.4	1280.4
17.5°	1238.3	1240.1	1243.5	1262.4	1264.9
20°	1210.0	1213.5	1220.3	1241.8	1245.2
22.5°	1180.9	1183.5	1193.7	1219.5	1222.9
25°	1144.9	1151.7	1165.4	1194.6	1199.8
27.5°	1110.6	1116.6	1135.4	1165.4	1174.0
30°	1070.3	1079.7	1102.0	1134.6	1144.0
32.5°	1031.7	1042.0	1067.7	1105.4	1114.0
35°	985.4	1000.8	1033.4	1071.1	1081.4
37.5°	943.3	957.9	994.8	1036.0	1048.0
40°	897.0	915.0	957.1	1000.8	1012.8
42.5°	854.1	871.3	916.8	961.3	977.6
45°	802.7	826.7	873.9	922.8	939.9
47.5°	755.5	779.5	833.6	885.9	901.3
50°	708.4	734.1	790.7	844.7	860.2
52.5°	659.5	686.9	747.8	801.8	819.8
55°	608.0	639.8	703.2	758.1	774.4
57.5°	559.1	591.7	659.5	715.2	731.5
60°	511.1	544.6	614.0	667.2	684.3
62.5°	457.9	497.4	569.4	621.7	634.6
65°	409.9	450.2	520.6	572.9	587.4
67.5°	359.3	403.1	473.4	521.4	535.1
70°	311.3	356.8	424.5	469.1	475.1
72.5°	259.8	306.2	374.8	403.1	403.1
75°	213.5	260.7	324.2	329.3	325.0
77.5°	162.9	215.3	256.4	246.1	235.8
80°	117.5	168.9	187.8	168.9	155.2
82.5°	78.9	122.6	113.2	90.0	79.8
85°	43.7	65.2	44.6	24.9	18.0
87.5°	16.3	14.6	4.3	4.3	4.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)