

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: P275576

Luminaire Tested: **14CZ2-39-S-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275576
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-40)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-39-S-UNV-L83050-W2A1-U-3000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3673.0 lumens
Efficiency: N/A
Efficacy: 119.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

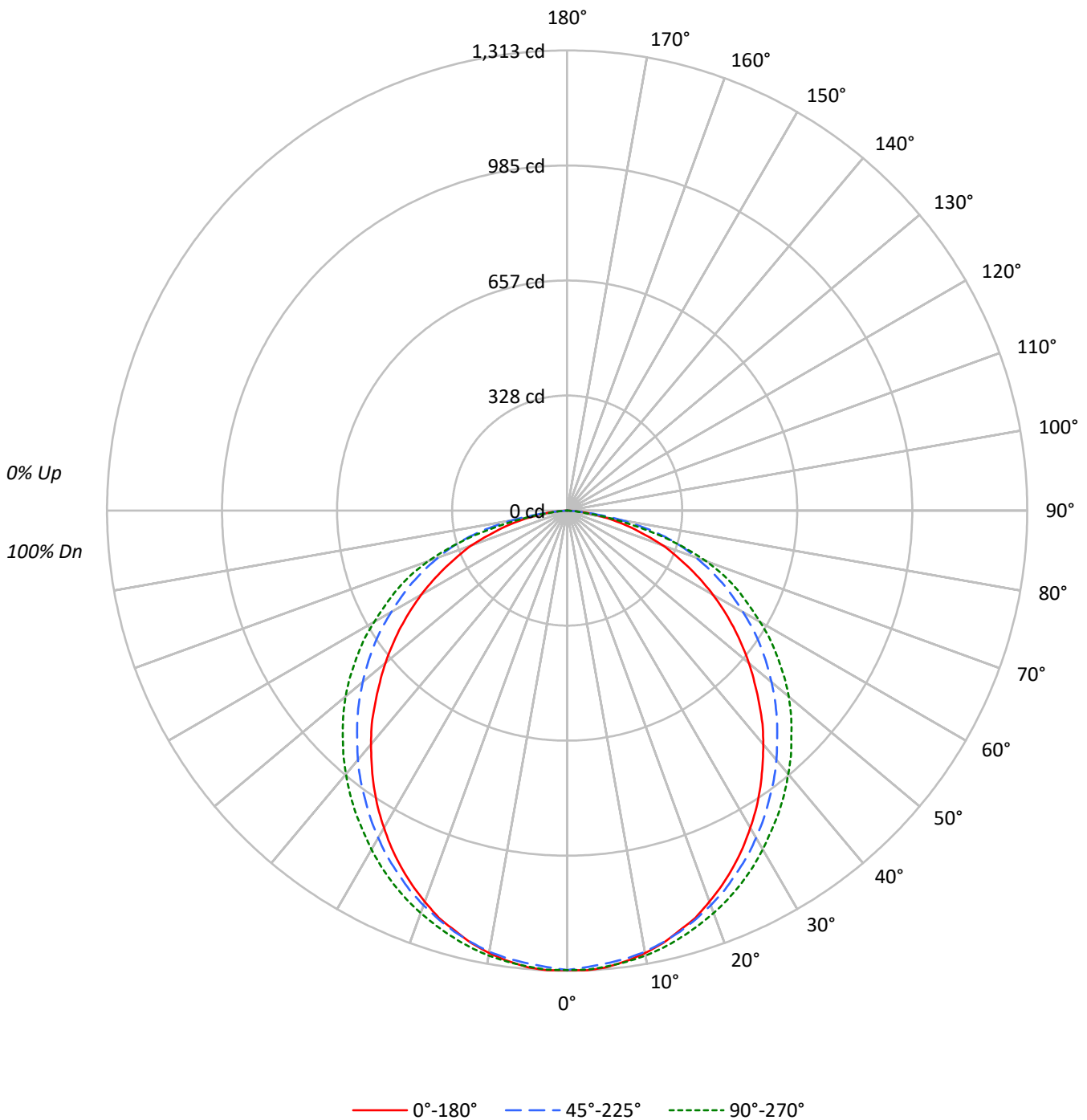
Input Watts (W): 30.876
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	104	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86	84
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3528	3528	3528
5°	3532	3502	3527
10°	3503	3493	3523
15°	3455	3465	3511
20°	3400	3432	3499
25°	3331	3390	3488
30°	3248	3350	3469
35°	3159	3302	3458
40°	3058	3263	3448
45°	2946	3223	3444
50°	2836	3187	3454
55°	2717	3161	3443
60°	2588	3117	3421
65°	2435	3108	3421
70°	2293	3080	3324
75°	1988	3011	2840
80°	1609	2427	1891
85°	1068	843	562



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.8	3.4
10°-20°	352.3	9.6
20°-30°	528.5	14.4
30°-40°	630.5	17.2
40°-50°	651.8	17.7
50°-60°	595.1	16.2
60°-70°	468.3	12.7
70°-80°	272.6	7.4
80°-90°	50.2	1.4
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°	1004.6	27.4
0°-40°	1635.1	44.5
0°-60°	2881.9	78.5
0°-90°	3673.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3673.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1311	1311	1311	1311	1311	
5°	1308	1304	1297	1308	1306	124
15°	1240	1242	1244	1260	1260	350
25°	1122	1127	1142	1169	1175	516
35°	962	974	1005	1044	1053	601
45°	774	800	847	894	905	598
55°	579	610	674	723	734	518
65°	382	422	488	526	537	380
75°	191	237	290	284	273	203
85°	35	49	27	22	18	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1311.2	1311.2	1311.2	1311.2	1311.2
2.5°	1313.0	1309.4	1303.9	1313.0	1311.2
5°	1307.6	1303.9	1296.6	1307.6	1305.7
7.5°	1296.6	1293.0	1289.3	1300.3	1298.5
10°	1282.1	1280.2	1278.4	1291.2	1289.3
12.5°	1263.9	1263.9	1262.0	1276.6	1276.6
15°	1240.2	1242.0	1243.8	1260.2	1260.2
17.5°	1218.3	1216.5	1222.0	1240.2	1242.0
20°	1187.4	1191.0	1198.3	1220.1	1222.0
22.5°	1156.4	1160.0	1172.8	1194.6	1200.1
25°	1121.8	1127.3	1141.8	1169.2	1174.6
27.5°	1085.4	1092.7	1112.7	1141.8	1147.3
30°	1045.3	1056.2	1078.1	1110.9	1116.3
32.5°	1005.3	1016.2	1043.5	1076.3	1083.6
35°	961.5	974.3	1005.3	1043.5	1052.6
37.5°	916.0	932.4	968.8	1007.1	1018.0
40°	870.5	888.7	928.8	968.8	981.6
42.5°	825.0	843.2	886.9	932.4	945.2
45°	774.0	799.5	846.8	894.2	905.1
47.5°	724.8	752.1	804.9	852.3	866.8
50°	677.5	704.8	761.2	810.4	825.0
52.5°	628.3	657.4	717.5	768.5	781.3
55°	579.1	610.1	673.8	723.0	733.9
57.5°	529.9	562.7	628.3	675.6	688.4
60°	480.8	515.4	579.1	626.5	635.6
62.5°	431.6	468.0	533.6	575.5	584.6
65°	382.4	422.5	488.1	526.3	537.2
67.5°	335.1	375.1	438.9	475.3	484.4
70°	291.4	327.8	391.5	418.9	422.5
72.5°	236.7	282.3	344.2	358.8	349.7
75°	191.2	236.7	289.6	284.1	273.2
77.5°	145.7	191.2	225.8	207.6	193.0
80°	103.8	149.3	156.6	129.3	122.0
82.5°	67.4	103.8	87.4	67.4	54.6
85°	34.6	49.2	27.3	21.9	18.2
87.5°	10.9	7.3	3.6	3.6	1.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)