

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: P275650

Luminaire Tested: **14CZ2-35-S-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275650
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: 14CZ2-35-S-UNV-L82765-W2A1-U-5700K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3672.0 lumens
Efficiency: N/A
Efficacy: 130.3 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

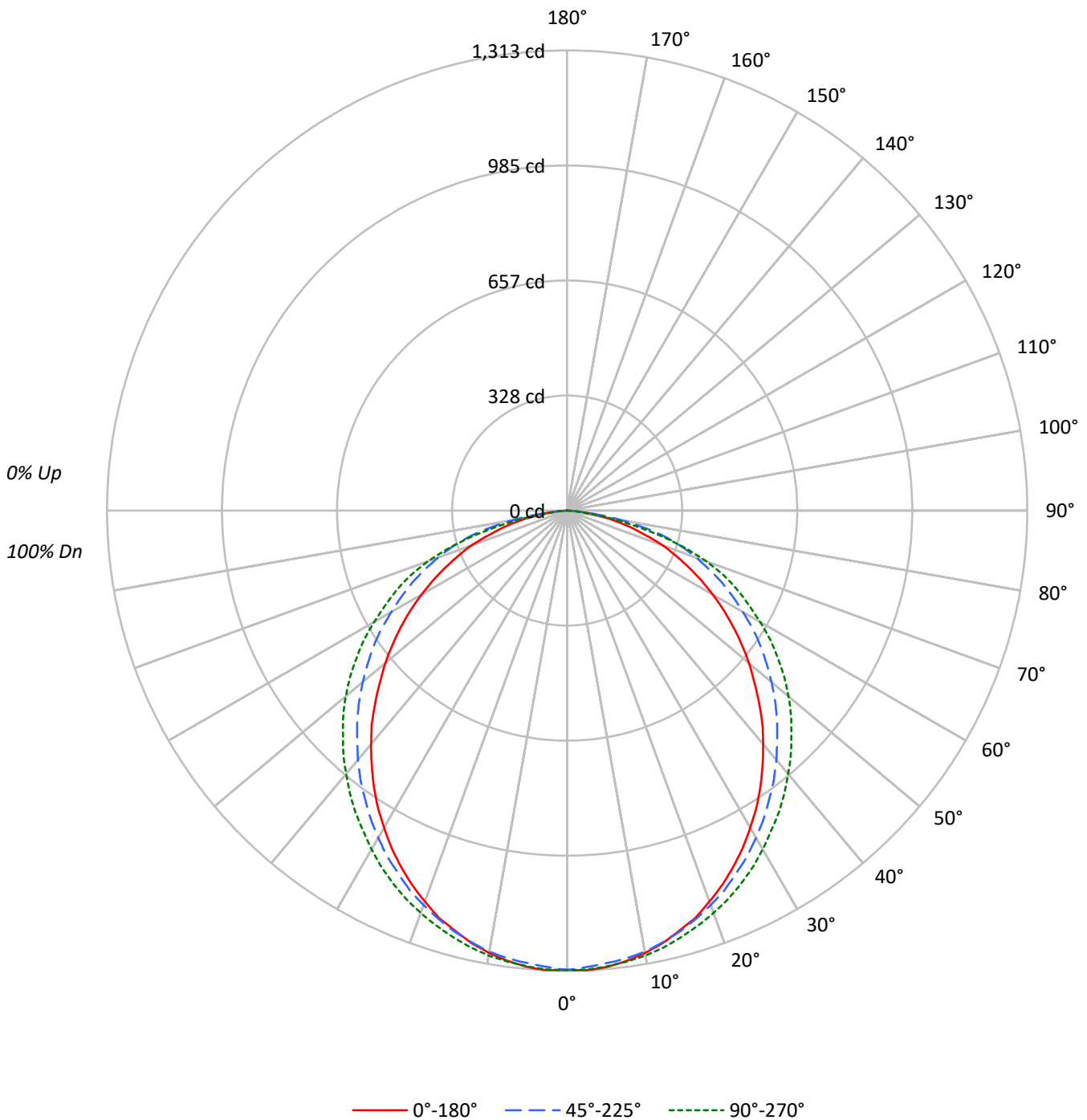
Input Watts (W): 28.179
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	104	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86	84					84			
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70					70			
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58					58			
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50					50			
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43					43			
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38					38			
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33					33			
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30					30			
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27					27			
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3527	3527	3527
5°	3531	3502	3526
10°	3502	3492	3522
15°	3454	3464	3510
20°	3399	3431	3498
25°	3330	3389	3487
30°	3247	3349	3468
35°	3158	3302	3457
40°	3057	3262	3447
45°	2945	3222	3443
50°	2835	3186	3453
55°	2716	3160	3442
60°	2587	3116	3420
65°	2434	3107	3420
70°	2292	3079	3323
75°	1988	3010	2839
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°	352.2	9.6
20°-30°	528.4	14.4
30°-40°	630.3	17.2
40°-50°	651.6	17.7
50°-60°	594.9	16.2
60°-70°	468.2	12.7
70°-80°	272.5	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°	1004.4	27.4
0°-40°	1634.7	44.5
0°-60°	2881.1	78.5
0°-90°	3672.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3672.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1311	1311	1311	1311	1311	
5°	1307	1304	1296	1307	1305	124
15°	1240	1242	1244	1260	1260	350
25°	1122	1127	1142	1169	1174	516
35°	961	974	1005	1043	1052	601
45°	774	799	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°	1310.8	1310.8	1310.8	1310.8	1310.8
2.5°	1312.7	1309.0	1303.6	1312.7	1310.8
5°	1307.2	1303.6	1296.3	1307.2	1305.4
7.5°	1296.3	1292.6	1289.0	1299.9	1298.1
10°	1281.7	1279.9	1278.1	1290.8	1289.0
12.5°	1263.5	1263.5	1261.7	1276.3	1276.3
15°	1239.8	1241.7	1243.5	1259.9	1259.9
17.5°	1218.0	1216.2	1221.6	1239.8	1241.7
20°	1187.0	1190.7	1198.0	1219.8	1221.6
22.5°	1156.1	1159.7	1172.5	1194.3	1199.8
25°	1121.5	1127.0	1141.5	1168.8	1174.3
27.5°	1085.1	1092.4	1112.4	1141.5	1147.0
30°	1045.0	1056.0	1077.8	1110.6	1116.0
32.5°	1005.0	1015.9	1043.2	1076.0	1083.3
35°	961.3	974.0	1005.0	1043.2	1052.3
37.5°	915.8	932.2	968.6	1006.8	1017.7
40°	870.3	888.5	928.5	968.6	981.3
42.5°	824.7	842.9	886.6	932.2	944.9
45°	773.8	799.3	846.6	893.9	904.8
47.5°	724.6	751.9	804.7	852.0	866.6
50°	677.3	704.6	761.0	810.2	824.7
52.5°	628.1	657.2	717.3	768.3	781.0
55°	579.0	609.9	673.6	722.8	733.7
57.5°	529.8	562.6	628.1	675.4	688.2
60°	480.6	515.2	579.0	626.3	635.4
62.5°	431.5	467.9	533.4	575.3	584.4
65°	382.3	422.4	487.9	526.2	537.1
67.5°	335.0	375.0	438.8	475.2	484.3
70°	291.3	327.7	391.4	418.7	422.4
72.5°	236.7	282.2	344.1	358.7	349.6
75°	191.2	236.7	289.5	284.0	273.1
77.5°	145.6	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	21.8	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)