

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: P275573

Luminaire Tested: **14CZ2-35-S-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275573
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-L83050-W2A1-U-4000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3698.0 lumens
Efficiency: N/A
Efficacy: 131.7 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

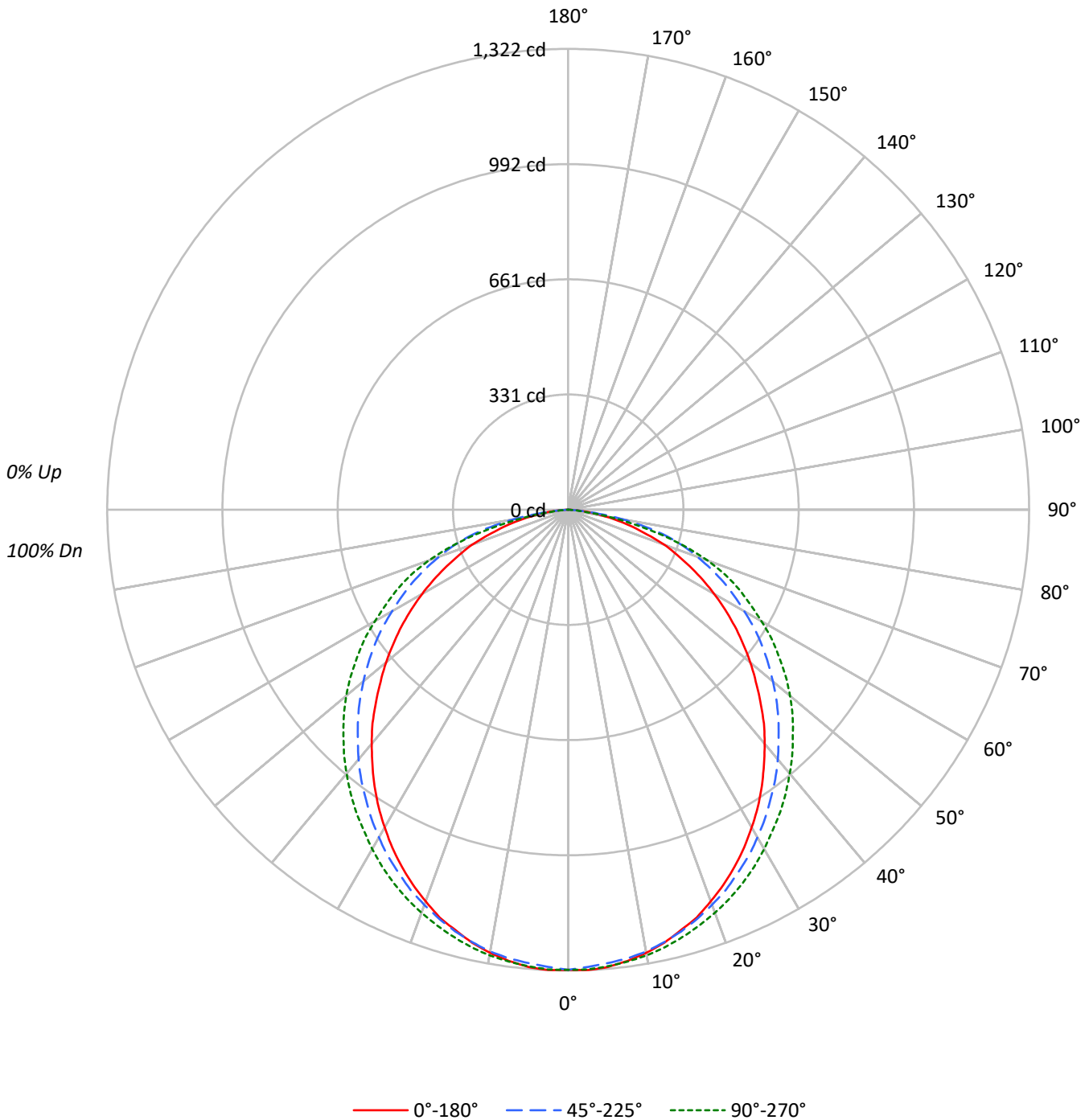
Input Watts (W): 28.086
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3552	3552	3552
5°	3556	3526	3551
10°	3527	3517	3547
15°	3478	3489	3535
20°	3423	3455	3523
25°	3353	3413	3511
30°	3270	3373	3492
35°	3180	3325	3482
40°	3079	3285	3472
45°	2965	3245	3468
50°	2856	3208	3477
55°	2736	3183	3467
60°	2605	3138	3444
65°	2451	3129	3444
70°	2308	3102	3347
75°	2001	3031	2859
80°	1619	2444	1903
85°	1074	849	565



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.7	3.4
10°-20°	354.7	9.6
20°-30°	532.1	14.4
30°-40°	634.7	17.2
40°-50°	656.2	17.7
50°-60°	599.1	16.2
60°-70°	471.5	12.7
70°-80°	274.4	7.4
80°-90°	50.6	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°	1011.5	27.4
0°-40°	1646.2	44.5
0°-60°	2901.5	78.5
0°-90°	3698.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3698.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1320	1320	1320	1320	1320	
5°	1316	1313	1306	1316	1315	125
15°	1249	1250	1252	1269	1269	352
25°	1129	1135	1150	1177	1183	520
35°	968	981	1012	1051	1060	605
45°	779	805	853	900	911	602
55°	583	614	678	728	739	521
65°	385	425	491	530	541	382
75°	192	238	292	286	275	205
85°	35	50	28	22	18	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1320.1	1320.1	1320.1	1320.1	1320.1
2.5°	1322.0	1318.3	1312.8	1322.0	1320.1
5°	1316.5	1312.8	1305.5	1316.5	1314.6
7.5°	1305.5	1301.8	1298.1	1309.1	1307.3
10°	1290.8	1289.0	1287.1	1300.0	1298.1
12.5°	1272.5	1272.5	1270.6	1285.3	1285.3
15°	1248.6	1250.5	1252.3	1268.8	1268.8
17.5°	1226.6	1224.8	1230.3	1248.6	1250.5
20°	1195.4	1199.1	1206.4	1228.4	1230.3
22.5°	1164.3	1167.9	1180.8	1202.8	1208.3
25°	1129.4	1134.9	1149.6	1177.1	1182.6
27.5°	1092.8	1100.1	1120.3	1149.6	1155.1
30°	1052.4	1063.4	1085.4	1118.4	1123.9
32.5°	1012.1	1023.1	1050.6	1083.6	1090.9
35°	968.1	980.9	1012.1	1050.6	1059.8
37.5°	922.3	938.8	975.4	1013.9	1024.9
40°	876.4	894.8	935.1	975.4	988.3
42.5°	830.6	848.9	892.9	938.8	951.6
45°	779.2	804.9	852.6	900.3	911.3
47.5°	729.7	757.2	810.4	858.1	872.7
50°	682.1	709.6	766.4	815.9	830.6
52.5°	632.6	661.9	722.4	773.7	786.6
55°	583.1	614.2	678.4	727.9	738.9
57.5°	533.6	566.6	632.6	680.2	693.1
60°	484.0	518.9	583.1	630.7	639.9
62.5°	434.5	471.2	537.2	579.4	588.6
65°	385.0	425.4	491.4	529.9	540.9
67.5°	337.4	377.7	441.9	478.5	487.7
70°	293.4	330.0	394.2	421.7	425.4
72.5°	238.4	284.2	346.5	361.2	352.0
75°	192.5	238.4	291.5	286.0	275.0
77.5°	146.7	192.5	227.4	209.0	194.4
80°	104.5	150.3	157.7	130.2	122.8
82.5°	67.8	104.5	88.0	67.8	55.0
85°	34.8	49.5	27.5	22.0	18.3
87.5°	11.0	7.3	3.7	3.7	1.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)