

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: P258864

Luminaire Tested: **14CZ-LD5-44-S-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258864
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35112)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-44-S-UNV-L92765-W2A1-U-3000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3625.0 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

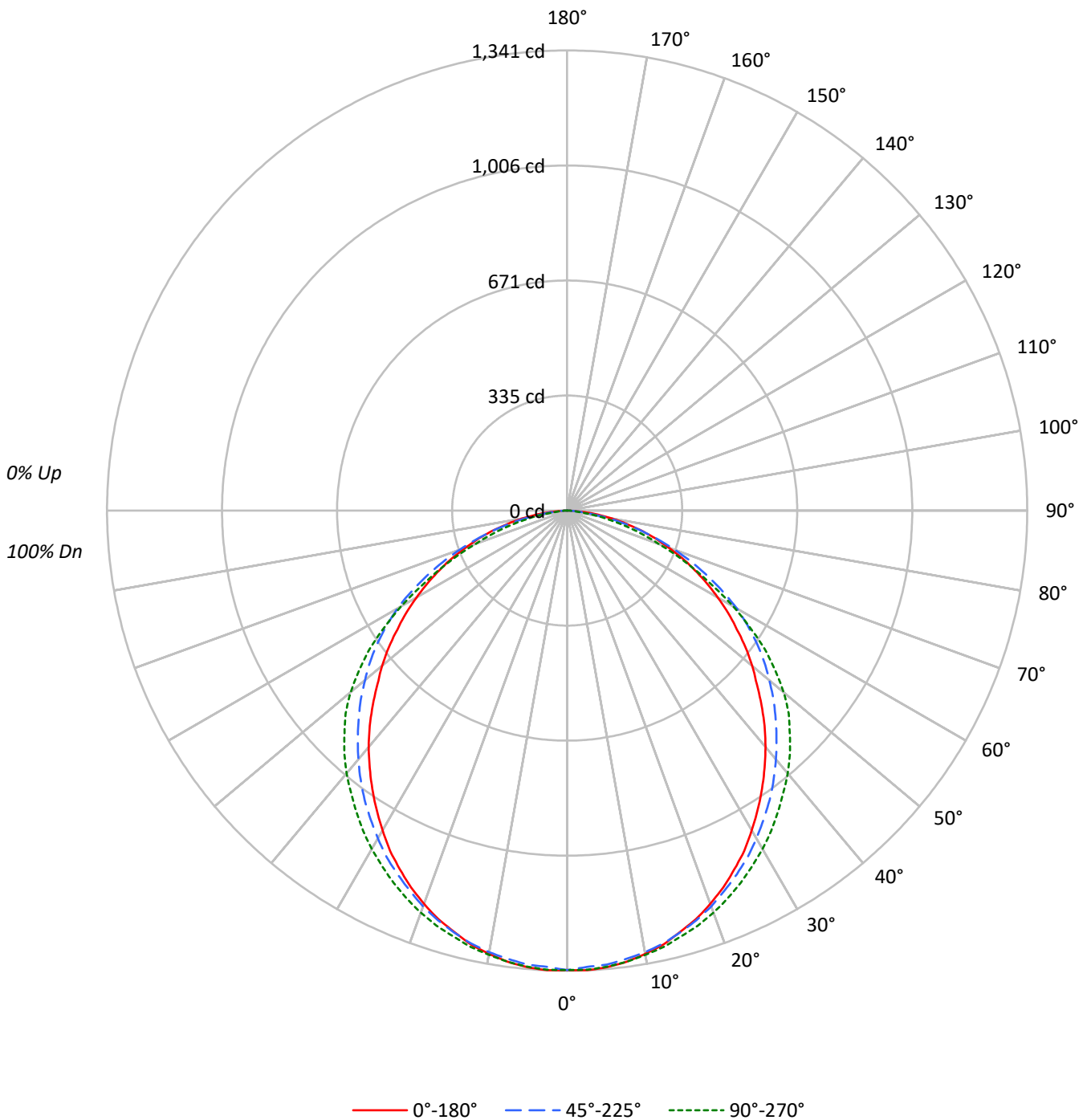
Input Watts (W): 35.247
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	100	97	106	102	98	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3603	3603	3603
5°	3608	3587	3604
10°	3584	3571	3593
15°	3541	3546	3578
20°	3492	3515	3571
25°	3424	3472	3554
30°	3343	3428	3539
35°	3253	3380	3518
40°	3160	3325	3512
45°	3049	3270	3492
50°	2948	3219	3449
55°	2834	3168	3297
60°	2730	3077	3008
65°	2613	2880	2643
70°	2466	2618	2237
75°	2301	2268	1848
80°	2027	1753	1351
85°	1596	849	747



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.5	3.5
10°-20°	360.5	9.9
20°-30°	541.0	14.9
30°-40°	644.9	17.8
40°-50°	664.3	18.3
50°-60°	592.0	16.3
60°-70°	426.6	11.8
70°-80°	223.1	6.2
80°-90°	46.1	1.3
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°	1028.0	28.4
0°-40°	1672.9	46.1
0°-60°	2929.2	80.8
0°-90°	3625.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3625.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1339	1339	1339	1339	1339	
5°	1336	1333	1328	1336	1334	127
15°	1271	1273	1273	1286	1284	359
25°	1153	1160	1170	1192	1197	531
35°	990	1003	1029	1063	1071	619
45°	801	819	859	908	918	618
55°	604	624	675	706	703	542
65°	410	425	452	431	415	406
75°	221	233	218	189	178	234
85°	52	45	28	24	24	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1339.1	1339.1	1339.1	1339.1	1339.1
2.5°	1340.7	1337.5	1331.0	1339.1	1339.1
5°	1335.8	1332.6	1327.8	1335.8	1334.2
7.5°	1326.2	1322.9	1318.1	1327.8	1326.2
10°	1311.6	1310.0	1306.8	1316.5	1314.8
12.5°	1295.5	1293.8	1292.2	1301.9	1301.9
15°	1271.2	1272.8	1272.8	1285.8	1284.2
17.5°	1248.6	1250.2	1251.9	1268.0	1268.0
20°	1219.5	1221.2	1227.6	1245.4	1247.0
22.5°	1188.9	1190.5	1198.5	1219.5	1222.8
25°	1153.3	1159.8	1169.5	1192.1	1196.9
27.5°	1117.8	1122.6	1138.8	1164.6	1167.9
30°	1075.8	1085.5	1103.2	1132.3	1138.8
32.5°	1033.8	1045.1	1066.1	1098.4	1106.5
35°	990.2	1003.1	1028.9	1062.9	1070.9
37.5°	944.9	956.3	988.6	1024.1	1035.4
40°	899.7	911.0	946.6	986.9	999.9
42.5°	851.3	867.4	902.9	948.2	961.1
45°	801.2	819.0	859.3	907.8	917.5
47.5°	749.5	768.9	815.7	864.2	875.5
50°	704.3	722.0	768.9	815.7	823.8
52.5°	655.8	672.0	723.7	762.4	764.0
55°	604.1	623.5	675.2	705.9	702.7
57.5°	557.3	573.4	623.5	639.7	630.0
60°	507.2	521.7	571.8	573.4	558.9
62.5°	458.7	473.3	512.0	500.7	483.0
65°	410.3	424.8	452.3	431.3	415.1
67.5°	363.4	376.4	392.5	365.1	348.9
70°	313.4	331.1	332.7	300.4	284.3
72.5°	269.8	279.4	276.2	245.5	231.0
75°	221.3	232.6	218.1	189.0	177.7
77.5°	176.1	184.1	164.8	137.3	129.2
80°	130.8	135.7	113.1	92.1	87.2
82.5°	88.8	88.8	64.6	50.1	45.2
85°	51.7	45.2	27.5	24.2	24.2
87.5°	17.8	11.3	11.3	11.3	11.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)