

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: P275493

Luminaire Tested: **14CZ2-44-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275493
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: 14CZ2-44-UNV-L82765-W2A1-U-2700K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3946.0 lumens
Efficiency: N/A
Efficacy: 110.8 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

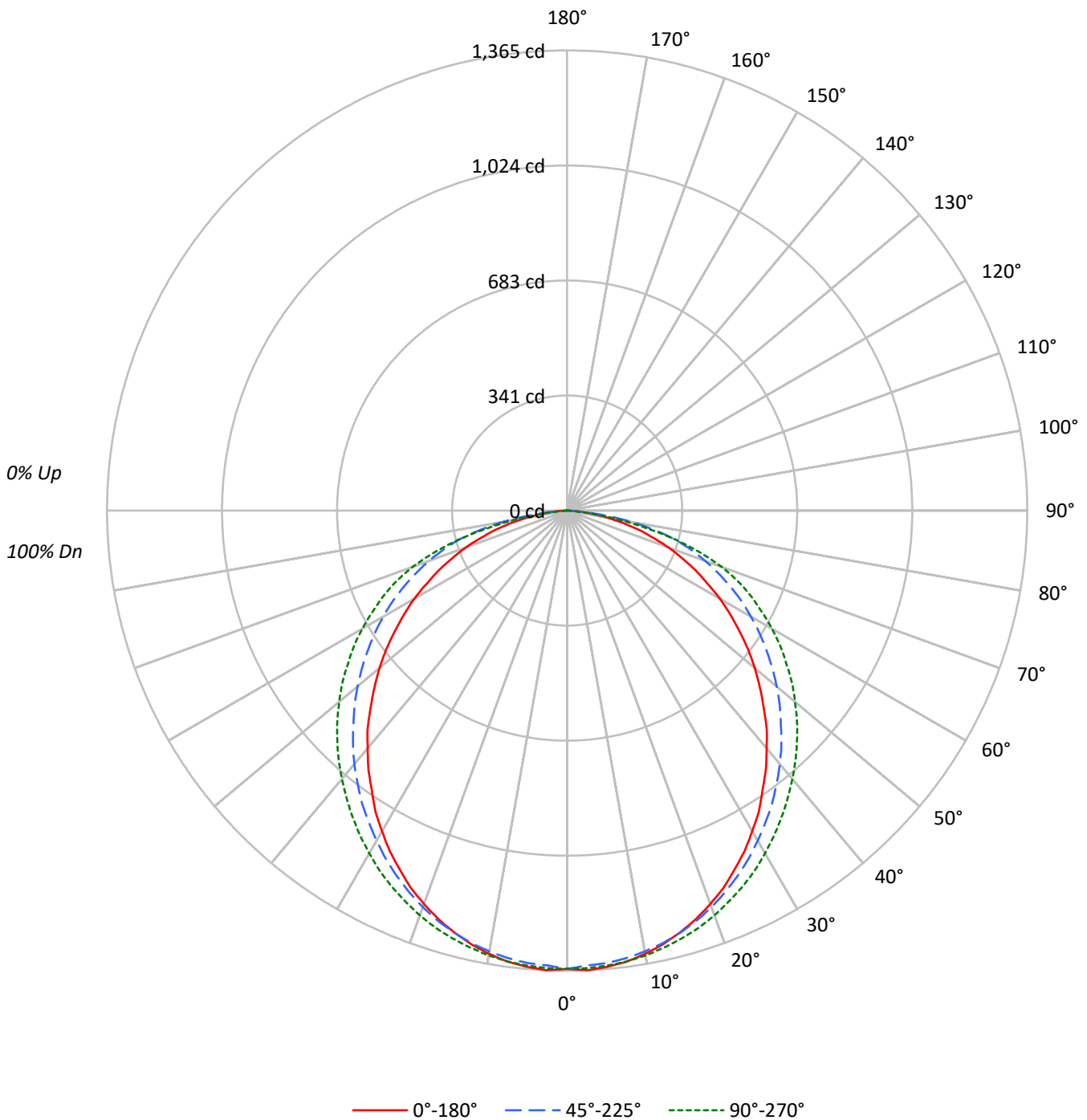
Input Watts (W): 35.619
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83					83			
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69					69			
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37					37			
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32					32			
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29					29			
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	26	51	39	31	26	37	30	26	37	30	25	36	30	25	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3658	3658	3658
5°	3670	3639	3660
10°	3647	3628	3662
15°	3608	3611	3660
20°	3555	3586	3659
25°	3488	3551	3655
30°	3412	3513	3647
35°	3321	3483	3645
40°	3233	3449	3650
45°	3134	3412	3670
50°	3043	3396	3695
55°	2927	3385	3727
60°	2822	3391	3779
65°	2678	3401	3838
70°	2513	3426	3836
75°	2278	3458	3467
80°	1867	2986	2469
85°	1386	1414	571



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.6	3.3
10°-20°	367.5	9.3
20°-30°	553.6	14.0
30°-40°	664.3	16.8
40°-50°	692.3	17.5
50°-60°	640.9	16.2
60°-70°	517.9	13.1
70°-80°	315.7	8.0
80°-90°	65.2	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°	1049.7	26.6
0°-40°	1713.9	43.4
0°-60°	3047.2	77.2
0°-90°	3946.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3946.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1359	1359	1359	1359	1359	
5°	1358	1355	1347	1357	1355	129
15°	1295	1296	1296	1314	1314	365
25°	1175	1182	1196	1226	1231	541
35°	1011	1027	1060	1099	1110	633
45°	824	848	897	947	964	637
55°	624	656	722	778	794	559
65°	421	462	534	588	603	416
75°	219	268	333	338	334	230
85°	45	67	46	26	18	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1359.4	1359.4	1359.4	1359.4	1359.4
2.5°	1364.7	1360.3	1350.6	1360.3	1358.5
5°	1358.5	1355.0	1347.1	1356.8	1355.0
7.5°	1349.7	1346.2	1339.2	1350.6	1348.9
10°	1334.8	1333.0	1327.7	1340.9	1340.1
12.5°	1317.2	1316.3	1313.7	1328.6	1327.7
15°	1295.2	1296.1	1296.1	1313.7	1313.7
17.5°	1270.5	1272.3	1275.8	1295.2	1297.8
20°	1241.5	1245.0	1252.1	1274.1	1277.6
22.5°	1211.6	1214.2	1224.8	1251.2	1254.7
25°	1174.6	1181.7	1195.8	1225.7	1230.9
27.5°	1139.4	1145.6	1165.0	1195.8	1204.6
30°	1098.1	1107.8	1130.6	1164.1	1173.8
32.5°	1058.5	1069.1	1095.4	1134.2	1143.0
35°	1011.0	1026.8	1060.3	1099.0	1109.5
37.5°	967.9	982.8	1020.7	1062.9	1075.2
40°	920.4	938.8	981.9	1026.8	1039.1
42.5°	876.4	894.0	940.6	986.3	1003.1
45°	823.6	848.2	896.6	946.7	964.3
47.5°	775.2	799.8	855.2	908.9	924.8
50°	726.8	753.2	811.2	866.7	882.5
52.5°	676.6	704.8	767.3	822.7	841.2
55°	623.8	656.4	721.5	777.8	794.5
57.5°	573.7	607.1	676.6	733.8	750.5
60°	524.4	558.7	630.0	684.5	702.1
62.5°	469.9	510.3	584.2	637.9	651.1
65°	420.6	461.9	534.1	587.8	602.7
67.5°	368.7	413.5	485.7	535.0	549.0
70°	319.4	366.0	435.5	481.3	487.5
72.5°	266.6	314.1	384.5	413.5	413.5
75°	219.1	267.5	332.6	337.9	333.5
77.5°	167.2	220.8	263.1	252.5	242.0
80°	120.5	173.3	192.7	173.3	159.3
82.5°	80.9	125.8	116.1	92.4	81.8
85°	44.9	66.9	45.8	25.5	18.5
87.5°	16.7	15.0	4.4	4.4	4.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)