

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: P275492

Luminaire Tested: **14CZ2-39-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275492
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: 14CZ2-39-UNV-L82765-W2A1-U-6500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4021.0 lumens
Efficiency: N/A
Efficacy: 124.2 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

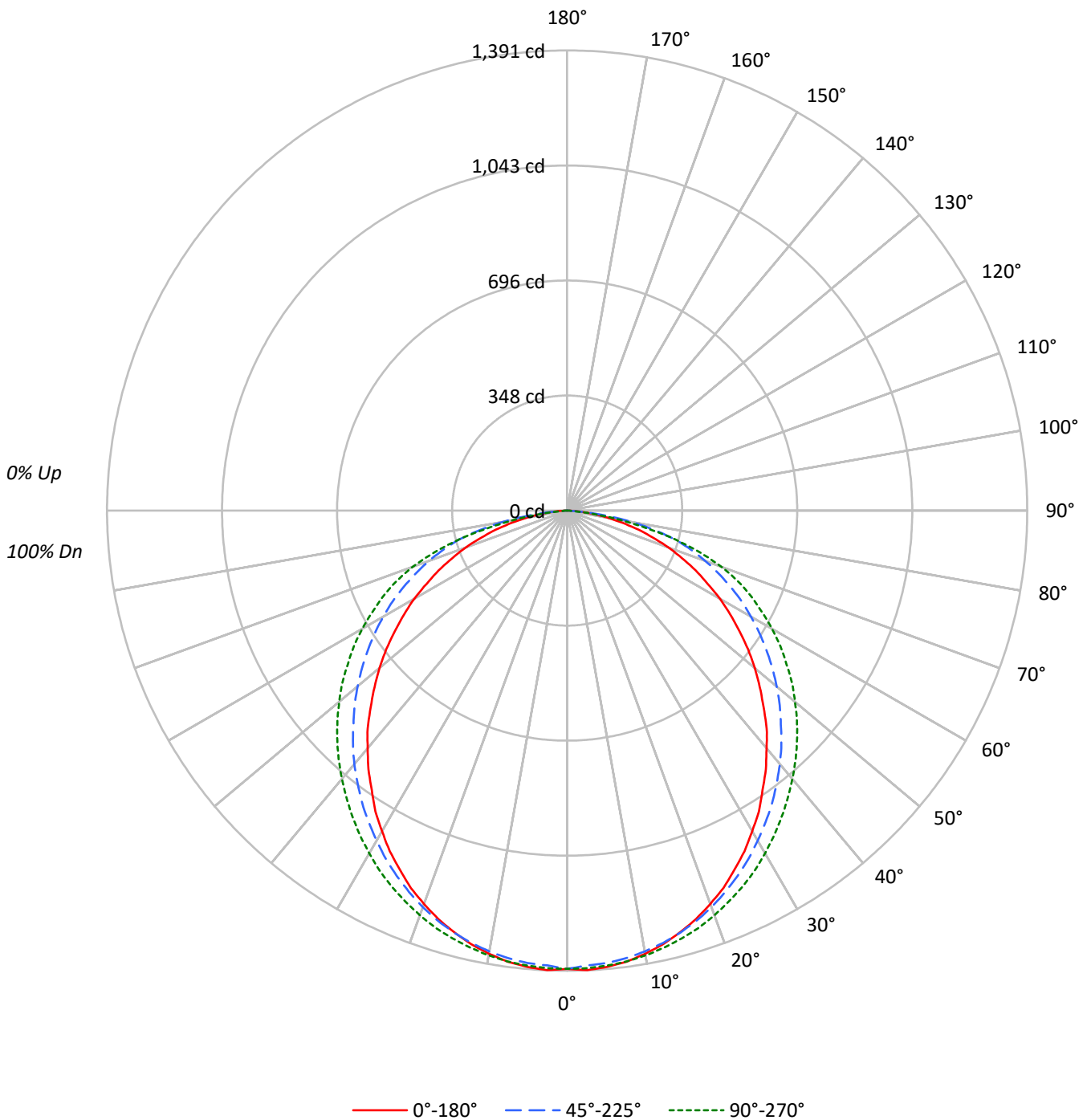
Input Watts (W): 32.364
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3728	3728	3728
5°	3740	3708	3730
10°	3716	3697	3731
15°	3677	3679	3729
20°	3623	3654	3728
25°	3554	3618	3724
30°	3477	3580	3717
35°	3384	3549	3714
40°	3294	3515	3720
45°	3194	3477	3740
50°	3100	3461	3765
55°	2982	3449	3798
60°	2876	3455	3851
65°	2729	3465	3911
70°	2561	3492	3908
75°	2322	3524	3533
80°	1903	3044	2515
85°	1411	1439	580



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.1	3.3
10°-20°	374.4	9.3
20°-30°	564.1	14.0
30°-40°	676.9	16.8
40°-50°	705.5	17.5
50°-60°	653.1	16.2
60°-70°	527.7	13.1
70°-80°	321.8	8.0
80°-90°	66.4	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°	1069.6	26.6
0°-40°	1746.5	43.4
0°-60°	3105.1	77.2
0°-90°	4021.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4021.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1385	1385	1385	1385	1385	
5°	1384	1381	1373	1383	1381	131
15°	1320	1321	1321	1339	1339	372
25°	1197	1204	1218	1249	1254	552
35°	1030	1046	1080	1120	1131	645
45°	839	864	914	965	983	649
55°	636	669	735	793	810	570
65°	429	471	544	599	614	424
75°	223	273	339	344	340	234
85°	46	68	47	26	19	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1385.2	1385.2	1385.2	1385.2	1385.2
2.5°	1390.6	1386.1	1376.3	1386.1	1384.4
5°	1384.4	1380.8	1372.7	1382.6	1380.8
7.5°	1375.4	1371.8	1364.6	1376.3	1374.5
10°	1360.1	1358.3	1353.0	1366.4	1365.5
12.5°	1342.2	1341.3	1338.6	1353.9	1353.0
15°	1319.8	1320.7	1320.7	1338.6	1338.6
17.5°	1294.7	1296.5	1300.1	1319.8	1322.5
20°	1265.1	1268.7	1275.9	1298.3	1301.9
22.5°	1234.6	1237.3	1248.1	1275.0	1278.6
25°	1197.0	1204.1	1218.5	1249.0	1254.3
27.5°	1161.1	1167.4	1187.1	1218.5	1227.4
30°	1119.0	1128.8	1152.1	1186.2	1196.1
32.5°	1078.6	1089.4	1116.3	1155.7	1164.7
35°	1030.2	1046.3	1080.4	1119.9	1130.6
37.5°	986.3	1001.5	1040.1	1083.1	1095.6
40°	937.8	956.7	1000.6	1046.3	1058.9
42.5°	893.0	910.9	958.5	1005.1	1022.1
45°	839.2	864.3	913.6	964.7	982.7
47.5°	789.9	815.0	871.5	926.2	942.3
50°	740.6	767.5	826.7	883.2	899.3
52.5°	689.5	718.2	781.8	838.3	857.1
55°	635.7	668.9	735.2	792.6	809.6
57.5°	584.6	618.7	689.5	747.8	764.8
60°	534.4	569.3	642.0	697.6	715.5
62.5°	478.8	520.0	595.3	650.0	663.5
65°	428.6	470.7	544.2	598.9	614.2
67.5°	375.7	421.4	494.9	545.1	559.5
70°	325.5	373.0	443.8	490.4	496.7
72.5°	271.7	320.1	391.8	421.4	421.4
75°	223.3	272.6	338.9	344.3	339.8
77.5°	170.4	225.0	268.1	257.3	246.6
80°	122.8	176.6	196.4	176.6	162.3
82.5°	82.5	128.2	118.4	94.1	83.4
85°	45.7	68.1	46.6	26.0	18.8
87.5°	17.0	15.2	4.5	4.5	4.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)