

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: P277257

Luminaire Tested: **22CZ2-44HE-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277257
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-27)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-44HE-UNV-L82765-W2A1-U-2700K
Description: CRUZE 2.0 2x2 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: 3778.0 lumens
Efficiency: N/A
Efficacy: 109.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

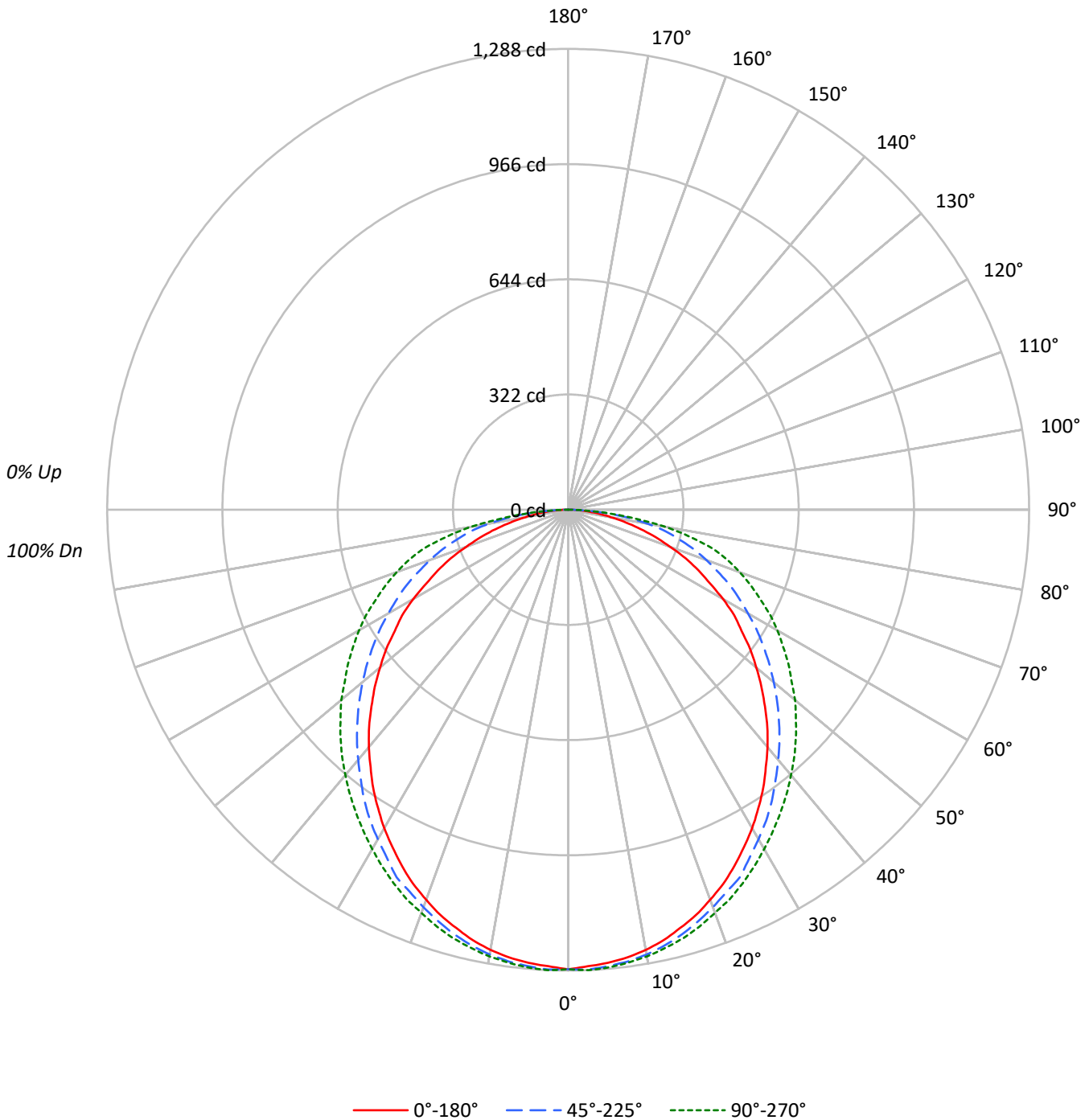
Input Watts (W): 34.596
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	103	98	94	105	101	96	93	96	93	90		92	90	87		89	86	84	82
2	98	89	82	76	95	87	81	75	84	78	73		80	76	71		77	73	70	68
3	89	78	69	63	86	76	68	62	73	66	61		70	65	60		68	63	59	56
4	81	69	60	53	79	67	59	52	65	57	52		63	56	51		60	55	50	48
5	75	61	52	45	72	60	52	45	58	50	44		56	49	44		54	48	44	41
6	69	55	46	39	67	54	46	39	52	45	39		51	44	39		49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34		46	39	34		45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31		42	35	30		41	35	30	28
9	56	42	34	28	54	41	33	28	40	33	28		39	32	27		38	32	27	25
10	52	39	31	25	51	38	30	25	37	30	25		36	30	25		35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3457	3457	3457
5°	3435	3460	3470
10°	3414	3449	3465
15°	3372	3423	3455
20°	3322	3386	3434
25°	3262	3367	3422
30°	3194	3304	3402
35°	3121	3261	3395
40°	3043	3207	3403
45°	2957	3169	3424
50°	2872	3136	3463
55°	2774	3122	3523
60°	2692	3122	3632
65°	2557	3172	3764
70°	2384	3232	4008
75°	2184	3344	4329
80°	1901	3485	4263
85°	1664	3100	3387



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.5	3.2
10°-20°	346.0	9.2
20°-30°	519.5	13.7
30°-40°	620.7	16.4
40°-50°	645.4	17.1
50°-60°	598.2	15.8
60°-70°	490.7	13.0
70°-80°	331.7	8.8
80°-90°	104.2	2.8
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°	987.0	26.1
0°-40°	1607.7	42.6
0°-60°	2851.4	75.5
0°-90°	3778.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3778.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1285	1285	1285	1285	1285	
5°	1272	1273	1281	1283	1285	121
15°	1210	1216	1229	1236	1240	341
25°	1099	1108	1134	1147	1153	506
35°	950	963	993	1022	1034	594
45°	777	792	833	881	900	600
55°	591	610	666	725	751	531
65°	402	424	498	563	591	397
75°	210	245	322	387	416	223
85°	54	74	100	112	110	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1284.6	1284.6	1284.6	1284.6	1284.6
2.5°	1277.2	1280.9	1286.4	1288.3	1288.3
5°	1271.6	1273.4	1280.9	1282.7	1284.6
7.5°	1262.3	1266.0	1273.4	1275.3	1277.2
10°	1249.3	1253.0	1262.3	1266.0	1267.9
12.5°	1232.5	1236.3	1247.4	1253.0	1254.8
15°	1210.2	1215.8	1228.8	1236.3	1240.0
17.5°	1187.9	1193.5	1206.5	1217.7	1221.4
20°	1160.0	1173.0	1182.3	1197.2	1199.1
22.5°	1132.1	1139.6	1156.3	1171.2	1178.6
25°	1098.7	1108.0	1134.0	1147.0	1152.6
27.5°	1063.4	1076.4	1096.8	1117.3	1124.7
30°	1028.0	1037.3	1063.4	1087.5	1095.0
32.5°	989.0	1002.0	1029.9	1054.1	1065.2
35°	950.0	963.0	992.7	1022.5	1033.6
37.5°	907.2	922.1	951.8	987.1	1002.0
40°	866.3	877.5	912.8	955.5	968.6
42.5°	823.6	836.6	873.7	920.2	935.1
45°	777.1	791.9	832.8	881.2	899.8
47.5°	732.5	747.3	791.9	840.3	862.6
50°	686.0	704.6	749.2	805.0	827.3
52.5°	641.4	658.1	708.3	765.9	786.4
55°	591.2	609.8	665.5	725.0	751.0
57.5°	550.3	563.3	624.6	686.0	712.0
60°	500.1	516.8	580.0	645.1	674.8
62.5°	446.2	474.1	539.1	606.0	635.8
65°	401.6	423.9	498.2	563.3	591.2
67.5°	355.1	379.2	451.7	520.5	552.1
70°	303.0	334.6	410.8	479.6	509.4
72.5°	256.5	290.0	368.1	435.0	466.6
75°	210.1	245.4	321.6	386.7	416.4
77.5°	165.5	204.5	278.9	329.0	347.6
80°	122.7	159.9	224.9	260.3	275.1
82.5°	85.5	117.1	165.5	184.0	187.8
85°	53.9	74.4	100.4	111.5	109.7
87.5°	24.2	29.7	37.2	40.9	39.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)