

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: P260501

Luminaire Tested: **22CZ-LD5-20-RDP-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260501
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25714)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-20-RDP-UNV-L92765-W2A1-U-4000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1406.0 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

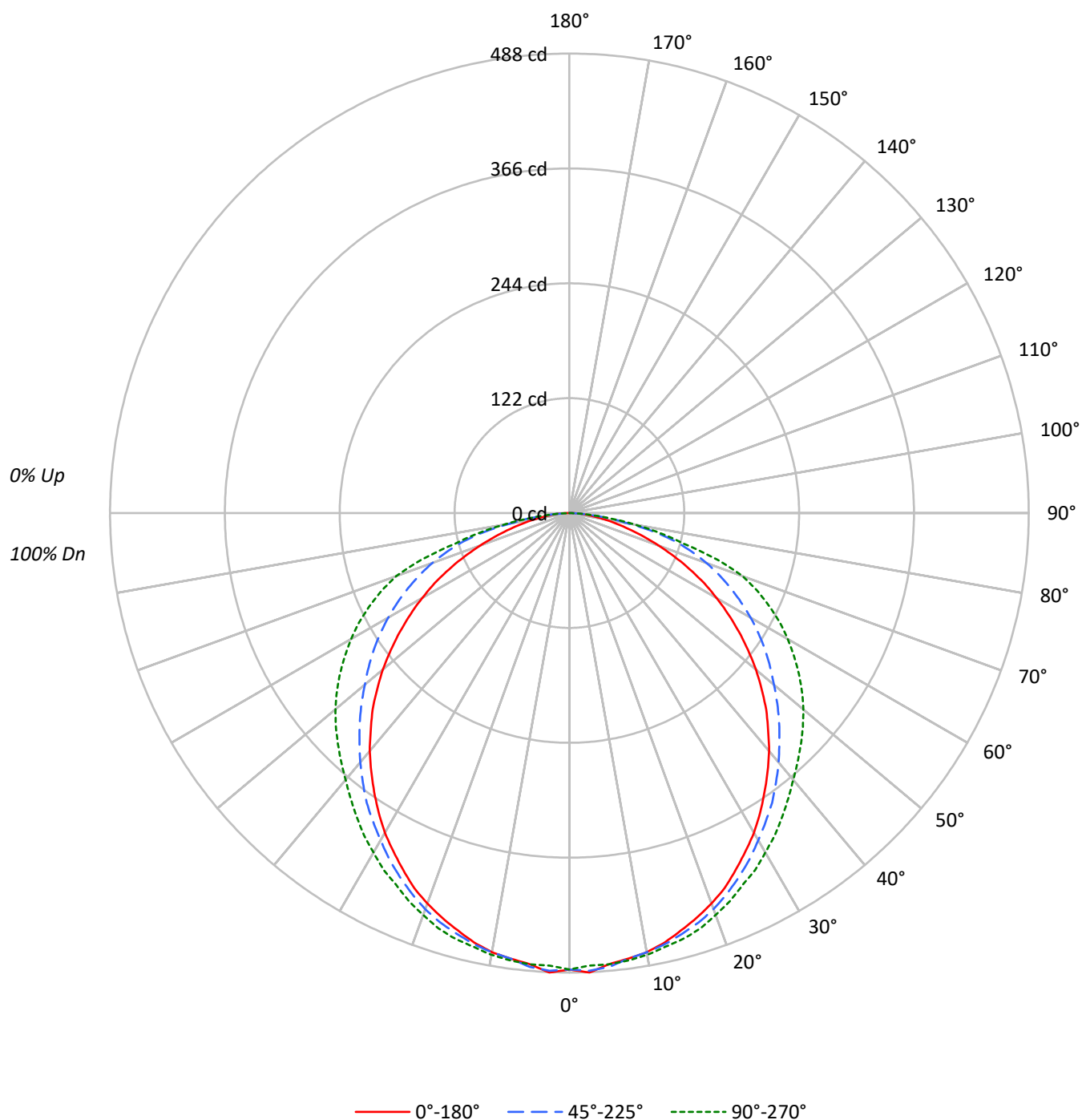
Input Watts (W): 15.717
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	108	104	99	95	106	101	97	94		97	94	91		93	90	88		89	87	85
2	98	90	83	77	96	88	81	76		84	79	74		81	77	73		78	74	71
3	89	79	70	64	87	77	69	63		74	67	62		71	66	61		69	64	60
4	82	69	60	54	79	68	60	53		66	58	52		63	57	52		61	56	51
5	75	62	53	46	73	61	52	46		59	51	45		57	50	45		55	49	44
6	69	56	47	40	67	55	46	40		53	45	40		51	44	39		50	44	39
7	64	50	42	35	62	50	41	35		48	40	35		47	40	35		45	39	34
8	60	46	37	31	58	45	37	31		44	37	31		43	36	31		42	35	31
9	56	42	34	28	54	42	34	28		40	33	28		39	33	28		38	32	28
10	52	39	31	26	51	38	31	26		37	30	25		36	30	25		36	30	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1304	1304	1304
5°	1299	1307	1299
10°	1294	1294	1302
15°	1278	1288	1304
20°	1263	1282	1301
25°	1241	1266	1293
30°	1218	1247	1293
35°	1188	1233	1294
40°	1159	1214	1299
45°	1125	1199	1323
50°	1083	1187	1358
55°	1031	1192	1396
60°	973	1197	1442
65°	897	1204	1493
70°	795	1218	1539
75°	675	1214	1310
80°	559	976	1091
85°	488	658	630



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.8	3.3
10°-20°	130.6	9.3
20°-30°	196.5	14.0
30°-40°	235.5	16.8
40°-50°	245.6	17.5
50°-60°	228.7	16.3
60°-70°	185.7	13.2
70°-80°	111.9	8.0
80°-90°	25.6	1.8
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°	373.0	26.5
0°-40°	608.5	43.3
0°-60°	1082.8	77.0
0°-90°	1406.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1406.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	485	485	485	485	485	
5°	481	481	484	485	481	46
15°	459	461	462	465	468	129
25°	418	421	426	432	436	193
35°	362	366	375	386	394	226
45°	296	301	315	336	348	228
55°	220	229	254	282	298	196
65°	141	156	189	219	234	139
75°	65	86	117	124	126	70
85°	16	20	21	20	20	18
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	484.7	484.7	484.7	484.7	484.7
2.5°	488.4	487.5	486.6	483.8	481.0
5°	481.0	481.0	483.8	484.7	481.0
7.5°	477.3	477.3	477.3	481.0	479.2
10°	473.6	473.6	473.6	476.4	476.4
12.5°	467.1	468.1	469.0	469.9	471.8
15°	458.8	460.6	462.5	465.3	468.1
17.5°	450.4	452.3	456.0	458.8	462.5
20°	441.2	443.0	447.7	450.4	454.2
22.5°	431.0	431.9	437.5	441.2	445.8
25°	418.0	420.8	426.3	431.9	435.6
27.5°	405.0	407.8	414.3	421.7	427.3
30°	392.1	394.8	401.3	410.6	416.2
32.5°	377.2	380.9	388.3	399.5	406.0
35°	361.5	366.1	375.4	386.5	393.9
37.5°	345.7	350.3	360.5	374.4	381.9
40°	330.0	334.6	345.7	360.5	369.8
42.5°	312.3	317.9	330.0	347.6	358.7
45°	295.7	301.2	315.1	335.5	347.6
47.5°	277.1	283.6	299.4	322.5	336.4
50°	258.6	266.0	283.6	309.6	324.4
52.5°	239.1	247.5	268.8	295.7	311.4
55°	219.7	228.9	254.0	281.8	297.5
57.5°	200.2	210.4	238.2	266.9	282.7
60°	180.7	191.9	222.4	252.1	267.9
62.5°	161.3	173.3	205.8	235.4	252.1
65°	140.9	155.7	189.1	218.7	234.5
67.5°	120.5	138.1	172.4	201.1	216.0
70°	101.0	120.5	154.8	181.7	195.6
72.5°	82.5	102.9	136.2	159.4	165.0
75°	64.9	86.2	116.8	124.2	126.0
77.5°	50.0	69.5	92.7	94.5	99.2
80°	36.1	52.8	63.0	68.6	70.4
82.5°	25.0	36.1	41.7	42.6	43.6
85°	15.8	19.5	21.3	20.4	20.4
87.5°	8.3	7.4	6.5	4.6	3.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)