

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: P260445

Luminaire Tested: **22CZ-LD5-20-RDP-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260445
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-L82765-W2A1-U-3000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1503.0 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

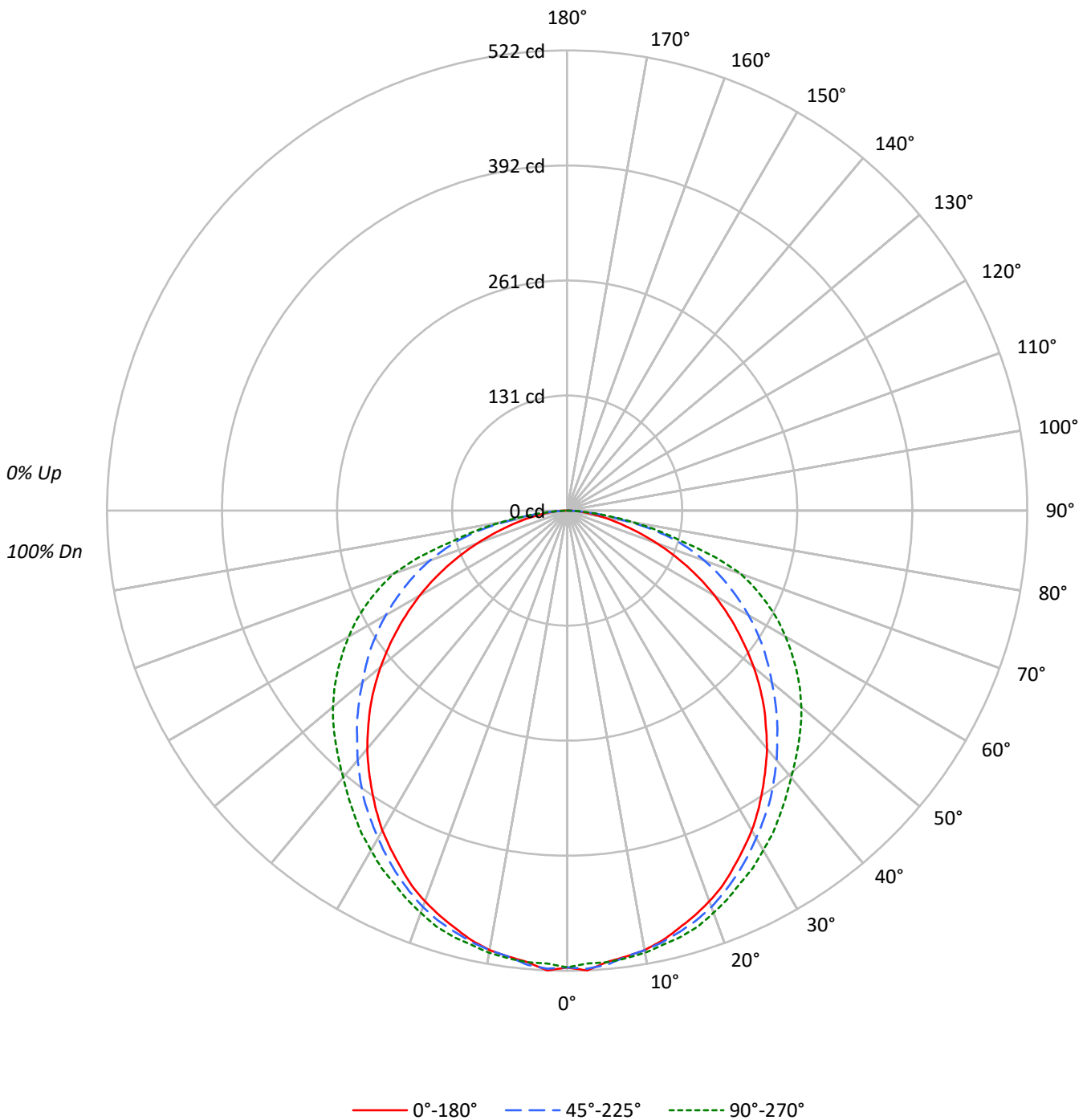
Input Watts (W): 15.438
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	77	73	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	37	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	36	30	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1394	1394	1394
5°	1389	1397	1389
10°	1383	1383	1392
15°	1366	1377	1394
20°	1351	1370	1390
25°	1327	1353	1383
30°	1302	1333	1382
35°	1269	1318	1383
40°	1239	1298	1389
45°	1203	1282	1414
50°	1157	1269	1452
55°	1102	1274	1492
60°	1040	1280	1541
65°	959	1287	1596
70°	850	1302	1645
75°	722	1298	1400
80°	598	1044	1167
85°	519	704	673



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.0	3.3
10°-20°	139.6	9.3
20°-30°	210.1	14.0
30°-40°	251.8	16.8
40°-50°	262.6	17.5
50°-60°	244.4	16.3
60°-70°	198.5	13.2
70°-80°	119.6	8.0
80°-90°	27.4	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°	398.7	26.5
0°-40°	650.5	43.3
0°-60°	1157.5	77.0
0°-90°	1503.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1503.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	518	518	518	518	518	
5°	514	514	517	518	514	49
15°	490	492	494	497	500	138
25°	447	450	456	462	466	206
35°	386	391	401	413	421	242
45°	316	322	337	359	372	243
55°	235	245	272	301	318	210
65°	151	166	202	234	251	149
75°	69	92	125	133	135	75
85°	17	21	23	22	22	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	518.2	518.2	518.2	518.2	518.2
2.5°	522.1	521.2	520.2	517.2	514.2
5°	514.2	514.2	517.2	518.2	514.2
7.5°	510.3	510.3	510.3	514.2	512.2
10°	506.3	506.3	506.3	509.3	509.3
12.5°	499.4	500.3	501.3	502.3	504.3
15°	490.4	492.4	494.4	497.4	500.3
17.5°	481.5	483.5	487.5	490.4	494.4
20°	471.6	473.6	478.5	481.5	485.5
22.5°	460.7	461.7	467.6	471.6	476.6
25°	446.8	449.8	455.8	461.7	465.7
27.5°	433.0	435.9	442.9	450.8	456.7
30°	419.1	422.1	429.0	438.9	444.9
32.5°	403.2	407.2	415.1	427.0	434.0
35°	386.4	391.4	401.3	413.2	421.1
37.5°	369.6	374.5	385.4	400.3	408.2
40°	352.7	357.7	369.6	385.4	395.3
42.5°	333.9	339.8	352.7	371.5	383.4
45°	316.1	322.0	336.9	358.7	371.5
47.5°	296.2	303.2	320.0	344.8	359.7
50°	276.4	284.4	303.2	330.9	346.8
52.5°	255.6	264.5	287.3	316.1	332.9
55°	234.8	244.7	271.5	301.2	318.0
57.5°	214.0	224.9	254.6	285.3	302.2
60°	193.2	205.1	237.8	269.5	286.3
62.5°	172.4	185.3	220.0	251.7	269.5
65°	150.6	166.5	202.1	233.8	250.7
67.5°	128.8	147.6	184.3	215.0	230.9
70°	108.0	128.8	165.5	194.2	209.1
72.5°	88.2	110.0	145.6	170.4	176.4
75°	69.4	92.1	124.8	132.8	134.7
77.5°	53.5	74.3	99.1	101.1	106.0
80°	38.6	56.5	67.4	73.3	75.3
82.5°	26.8	38.6	44.6	45.6	46.6
85°	16.8	20.8	22.8	21.8	21.8
87.5°	8.9	7.9	6.9	5.0	4.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)