

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: P260509

Luminaire Tested: **22CZ-LD5-24-RDP-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260509
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-LD5-24-RDP-UNV-L92765-W2A1-U-3500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1537.0 lumens
Efficiency: N/A
Efficacy: 87.4 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

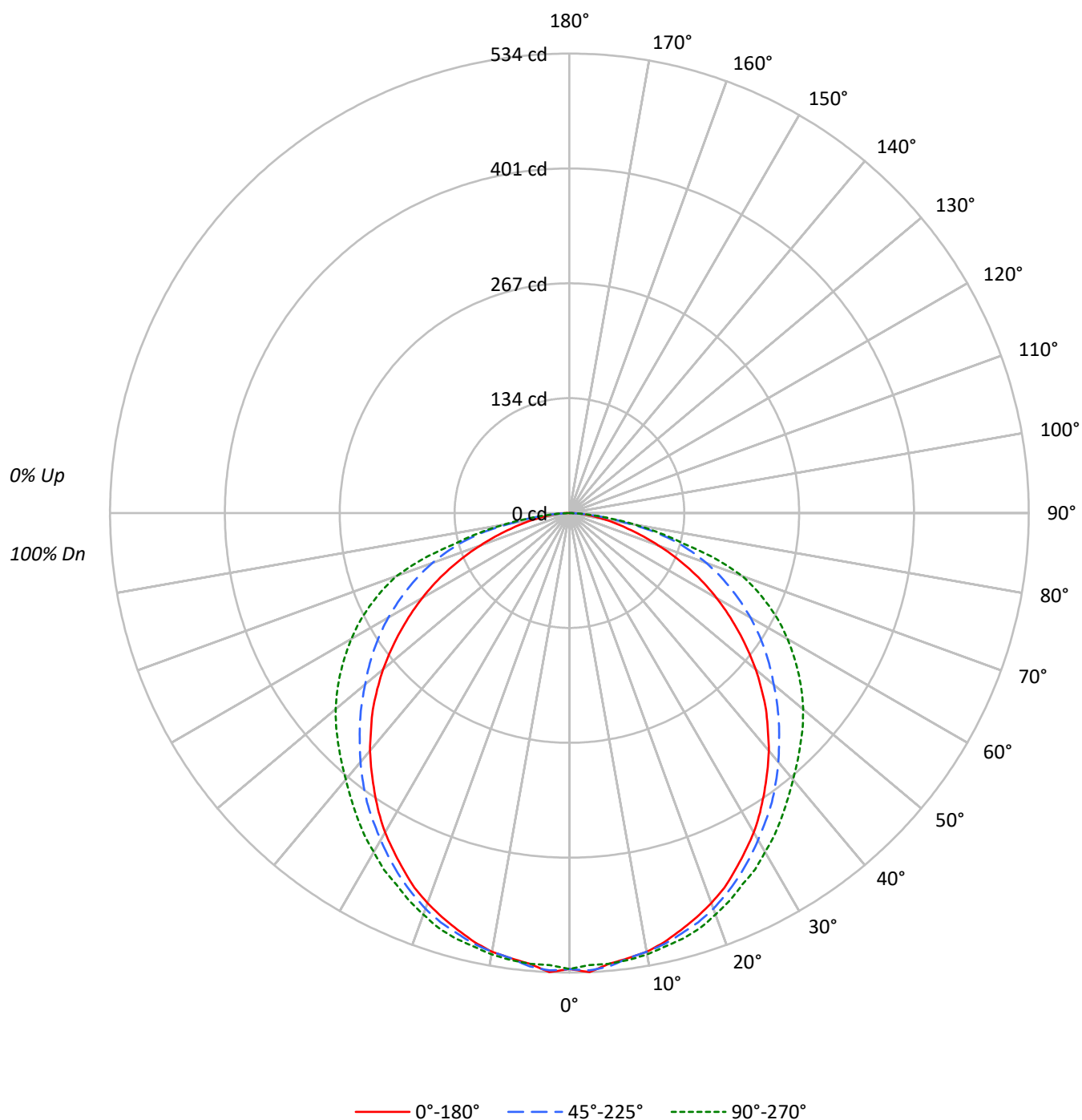
Input Watts (W): 17.577
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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°	1426	1426	1426
5°	1420	1429	1420
10°	1415	1415	1423
15°	1397	1409	1426
20°	1381	1401	1422
25°	1357	1384	1414
30°	1332	1363	1413
35°	1298	1348	1415
40°	1267	1327	1420
45°	1230	1311	1446
50°	1184	1298	1485
55°	1126	1302	1526
60°	1063	1309	1576
65°	981	1316	1632
70°	869	1331	1682
75°	737	1328	1433
80°	612	1068	1193
85°	531	719	689



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.1	3.3
10°-20°	142.8	9.3
20°-30°	214.8	14.0
30°-40°	257.5	16.8
40°-50°	268.5	17.5
50°-60°	250.0	16.3
60°-70°	203.0	13.2
70°-80°	122.3	8.0
80°-90°	28.1	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°	407.7	26.5
0°-40°	665.2	43.3
0°-60°	1183.6	77.0
0°-90°	1537.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1537.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	530	530	530	530	530	
5°	526	526	529	530	526	50
15°	502	504	506	509	512	142
25°	457	460	466	472	476	211
35°	395	400	410	422	431	247
45°	323	329	344	367	380	249
55°	240	250	278	308	325	215
65°	154	170	207	239	256	152
75°	71	94	128	136	138	77
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°	529.9	529.9	529.9	529.9	529.9
2.5°	534.0	532.9	531.9	528.9	525.8
5°	525.8	525.8	528.9	529.9	525.8
7.5°	521.8	521.8	521.8	525.8	523.8
10°	517.7	517.7	517.7	520.8	520.8
12.5°	510.6	511.7	512.7	513.7	515.7
15°	501.5	503.6	505.6	508.6	511.7
17.5°	492.4	494.4	498.5	501.5	505.6
20°	482.3	484.3	489.4	492.4	496.5
22.5°	471.1	472.1	478.2	482.3	487.3
25°	456.9	460.0	466.1	472.1	476.2
27.5°	442.8	445.8	452.9	461.0	467.1
30°	428.6	431.6	438.7	448.8	454.9
32.5°	412.4	416.4	424.5	436.7	443.8
35°	395.1	400.2	410.3	422.5	430.6
37.5°	377.9	383.0	394.1	409.3	417.4
40°	360.7	365.8	377.9	394.1	404.3
42.5°	341.4	347.5	360.7	379.9	392.1
45°	323.2	329.3	344.5	366.8	379.9
47.5°	302.9	310.0	327.3	352.6	367.8
50°	282.7	290.8	310.0	338.4	354.6
52.5°	261.4	270.5	293.8	323.2	340.4
55°	240.1	250.3	277.6	308.0	325.2
57.5°	218.8	230.0	260.4	291.8	309.0
60°	197.6	209.7	243.2	275.6	292.8
62.5°	176.3	189.5	224.9	257.4	275.6
65°	154.0	170.2	206.7	239.1	256.3
67.5°	131.7	151.0	188.5	219.9	236.1
70°	110.4	131.7	169.2	198.6	213.8
72.5°	90.2	112.5	148.9	174.3	180.3
75°	70.9	94.2	127.7	135.8	137.8
77.5°	54.7	76.0	101.3	103.3	108.4
80°	39.5	57.8	68.9	75.0	77.0
82.5°	27.4	39.5	45.6	46.6	47.6
85°	17.2	21.3	23.3	22.3	22.3
87.5°	9.1	8.1	7.1	5.1	4.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)