

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: P260510

Luminaire Tested: **22CZ-LD5-24-RDP-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260510
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-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: 1586.0 lumens
Efficiency: N/A
Efficacy: 89.3 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

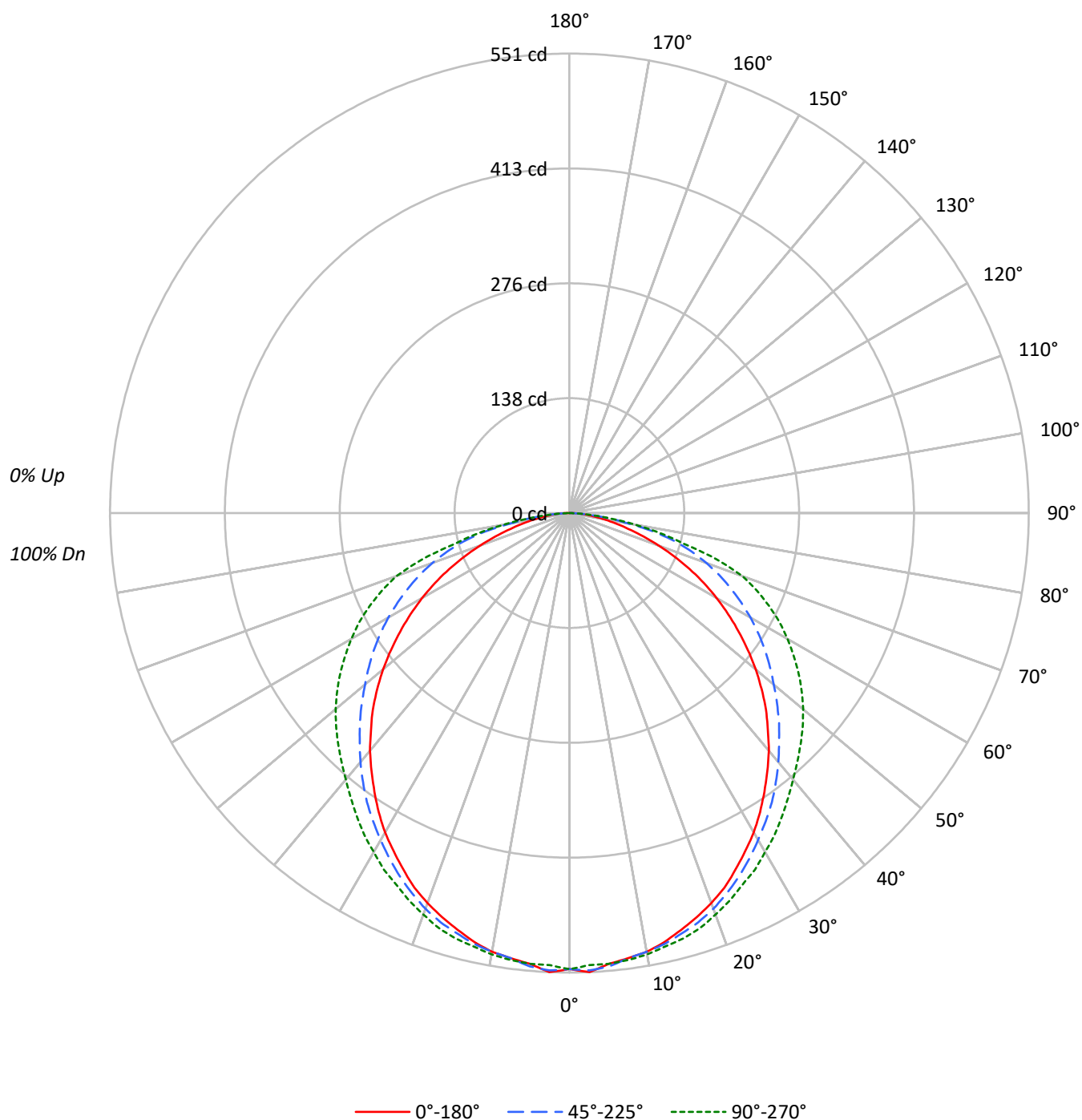
Input Watts (W): 17.763
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1471	1471	1471
5°	1466	1474	1466
10°	1460	1460	1468
15°	1442	1453	1471
20°	1425	1446	1467
25°	1400	1428	1459
30°	1374	1407	1459
35°	1339	1391	1460
40°	1307	1370	1466
45°	1269	1353	1492
50°	1221	1339	1532
55°	1163	1344	1574
60°	1097	1350	1626
65°	1012	1358	1684
70°	897	1374	1736
75°	761	1369	1478
80°	632	1102	1232
85°	550	741	710



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.7	3.3
10°-20°	147.4	9.3
20°-30°	221.7	14.0
30°-40°	265.7	16.8
40°-50°	277.1	17.5
50°-60°	257.9	16.3
60°-70°	209.5	13.2
70°-80°	126.2	8.0
80°-90°	28.9	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°	420.7	26.5
0°-40°	686.4	43.3
0°-60°	1221.4	77.0
0°-90°	1586.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1586.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	547	547	547	547	547	
5°	543	543	546	547	543	52
15°	518	520	522	525	528	146
25°	472	475	481	487	491	217
35°	408	413	423	436	444	255
45°	334	340	356	378	392	257
55°	248	258	286	318	336	222
65°	159	176	213	247	264	157
75°	73	97	132	140	142	79
85°	18	22	24	23	23	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	546.8	546.8	546.8	546.8	546.8
2.5°	551.0	549.9	548.9	545.7	542.6
5°	542.6	542.6	545.7	546.8	542.6
7.5°	538.4	538.4	538.4	542.6	540.5
10°	534.2	534.2	534.2	537.4	537.4
12.5°	526.9	528.0	529.0	530.1	532.2
15°	517.5	519.6	521.7	524.8	528.0
17.5°	508.1	510.2	514.4	517.5	521.7
20°	497.7	499.7	505.0	508.1	512.3
22.5°	486.2	487.2	493.5	497.7	502.9
25°	471.5	474.7	480.9	487.2	491.4
27.5°	456.9	460.0	467.3	475.7	482.0
30°	442.2	445.4	452.7	463.2	469.4
32.5°	425.5	429.7	438.1	450.6	457.9
35°	407.7	413.0	423.4	436.0	444.3
37.5°	390.0	395.2	406.7	422.4	430.7
40°	372.2	377.4	390.0	406.7	417.2
42.5°	352.3	358.6	372.2	392.1	404.6
45°	333.5	339.8	355.5	378.5	392.1
47.5°	312.6	319.9	337.7	363.8	379.5
50°	291.7	300.1	319.9	349.2	365.9
52.5°	269.7	279.1	303.2	333.5	351.3
55°	247.8	258.2	286.5	317.8	335.6
57.5°	225.8	237.3	268.7	301.1	318.9
60°	203.9	216.4	250.9	284.4	302.1
62.5°	181.9	195.5	232.1	265.6	284.4
65°	158.9	175.6	213.3	246.7	264.5
67.5°	135.9	155.8	194.5	226.9	243.6
70°	114.0	135.9	174.6	204.9	220.6
72.5°	93.0	116.0	153.7	179.8	186.1
75°	73.2	97.2	131.7	140.1	142.2
77.5°	56.5	78.4	104.5	106.6	111.9
80°	40.8	59.6	71.1	77.4	79.5
82.5°	28.2	40.8	47.0	48.1	49.1
85°	17.8	22.0	24.0	23.0	23.0
87.5°	9.4	8.4	7.3	5.2	4.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)