

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: P260224

Luminaire Tested: **22CZ-LD5-24-SQP-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260224
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25713)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-24-SQP-UNV-L83050-W2A1-U-4500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1617.0 lumens
Efficiency: N/A
Efficacy: 87.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

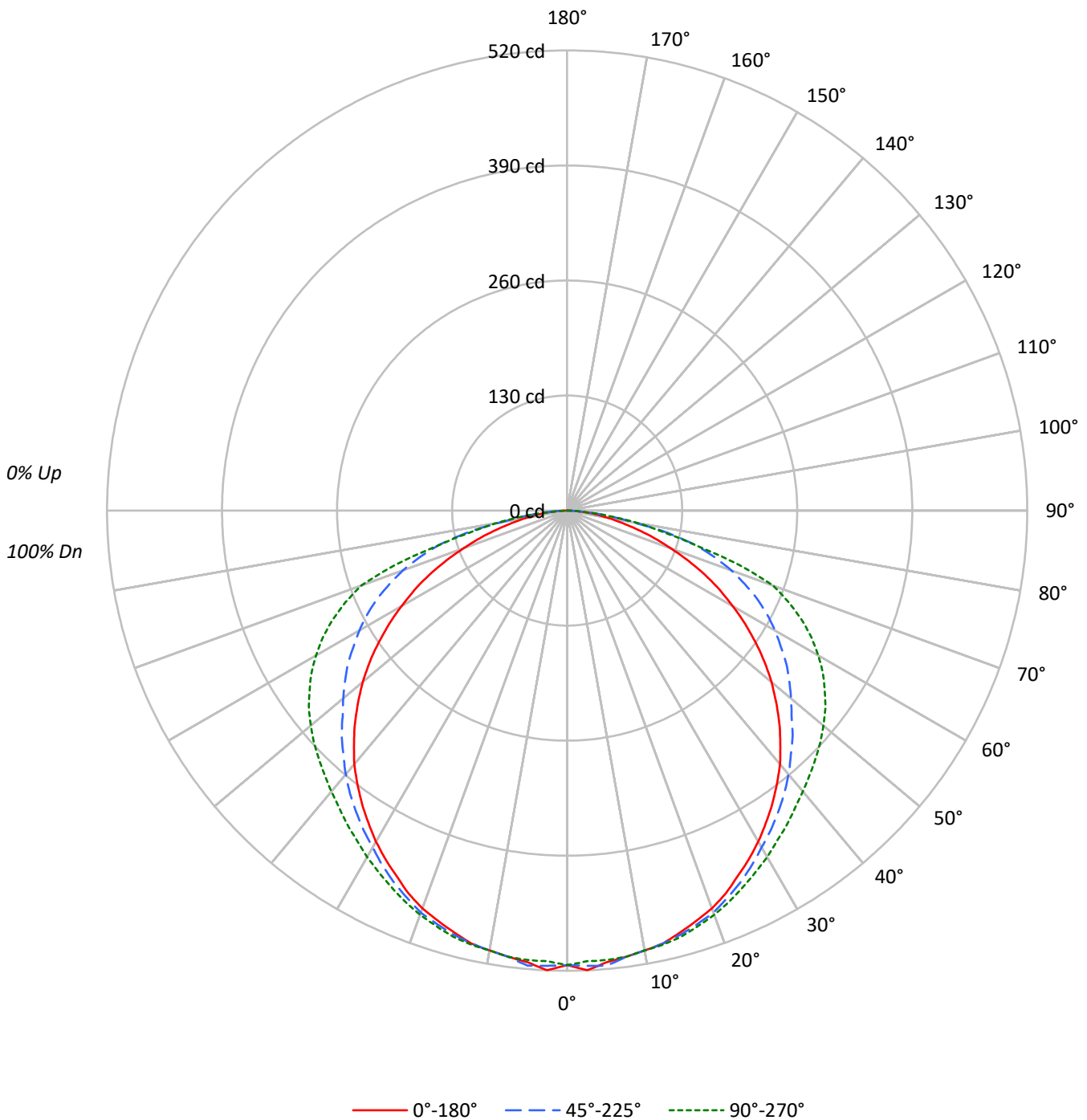
Input Watts (W): 18.414
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68
3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	68	63	58	56
4	81	68	59	52	79	67	58	52	64	57	51	62	56	50	60	54	50	47
5	74	61	52	45	72	60	51	44	58	50	44	56	49	43	54	48	43	41
6	68	55	45	39	66	54	45	39	52	44	38	50	43	38	48	42	37	35
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	28
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1382	1382	1382
5°	1384	1394	1377
10°	1379	1379	1379
15°	1375	1382	1389
20°	1370	1385	1392
25°	1353	1376	1395
30°	1342	1366	1405
35°	1328	1366	1423
40°	1314	1368	1456
45°	1290	1372	1510
50°	1262	1383	1582
55°	1219	1420	1667
60°	1163	1460	1764
65°	1095	1511	1863
70°	978	1552	1947
75°	848	1553	1541
80°	721	1148	1246
85°	621	775	698



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.8	3.0
10°-20°	140.0	8.7
20°-30°	213.4	13.2
30°-40°	261.1	16.1
40°-50°	281.0	17.4
50°-60°	272.2	16.8
60°-70°	230.5	14.3
70°-80°	139.4	8.6
80°-90°	30.6	1.9
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°	402.2	24.9
0°-40°	663.4	41.0
0°-60°	1216.5	75.2
0°-90°	1617.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1617.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	514	514	514	514	514	
5°	512	512	516	514	510	49
15°	494	495	496	497	498	139
25°	456	458	463	467	470	210
35°	404	407	416	427	433	253
45°	339	345	360	383	397	261
55°	260	271	303	338	355	232
65°	172	191	237	275	293	169
75°	82	110	149	152	148	88
85°	20	24	25	24	23	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	513.6	513.6	513.6	513.6	513.6
2.5°	519.9	518.6	514.9	512.3	509.8
5°	512.3	512.3	516.1	513.6	509.8
7.5°	508.6	508.6	508.6	514.9	508.6
10°	504.8	506.1	504.8	509.8	504.8
12.5°	501.0	501.0	501.0	502.3	502.3
15°	493.5	494.8	496.0	497.3	498.5
17.5°	486.0	487.2	489.7	491.0	492.3
20°	478.4	479.7	483.5	483.5	486.0
22.5°	468.4	468.4	473.4	474.7	478.4
25°	455.8	458.3	463.4	467.1	469.7
27.5°	444.5	447.0	452.1	457.1	460.9
30°	432.0	434.5	439.5	447.0	452.1
32.5°	418.2	420.7	428.2	437.0	442.0
35°	404.4	406.9	415.7	427.0	433.2
37.5°	389.3	393.1	403.1	415.7	423.2
40°	374.2	378.0	389.3	403.1	414.4
42.5°	356.6	361.7	374.2	393.1	405.6
45°	339.1	345.3	360.4	383.0	396.8
47.5°	320.2	326.5	344.1	373.0	388.0
50°	301.4	308.9	330.3	361.7	378.0
52.5°	281.3	288.8	316.4	350.4	367.9
55°	259.9	271.2	302.6	337.8	355.4
57.5°	238.6	251.2	286.3	324.0	342.8
60°	216.0	231.1	271.2	308.9	327.8
62.5°	194.6	211.0	254.9	292.6	311.4
65°	172.0	190.9	237.3	275.0	292.6
67.5°	148.2	172.0	217.2	253.7	271.2
70°	124.3	151.9	197.2	231.1	247.4
72.5°	103.0	131.9	174.5	203.4	203.4
75°	81.6	110.5	149.4	151.9	148.2
77.5°	62.8	90.4	116.8	106.7	109.3
80°	46.5	69.1	74.1	77.9	80.4
82.5°	31.4	46.5	47.7	50.2	50.2
85°	20.1	23.9	25.1	23.9	22.6
87.5°	8.8	10.0	7.5	5.0	3.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)