

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: P260289

Luminaire Tested: **22CZ-LD5-24-SQP-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260289
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-L82765-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: 1550.0 lumens
Efficiency: N/A
Efficacy: 86.4 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

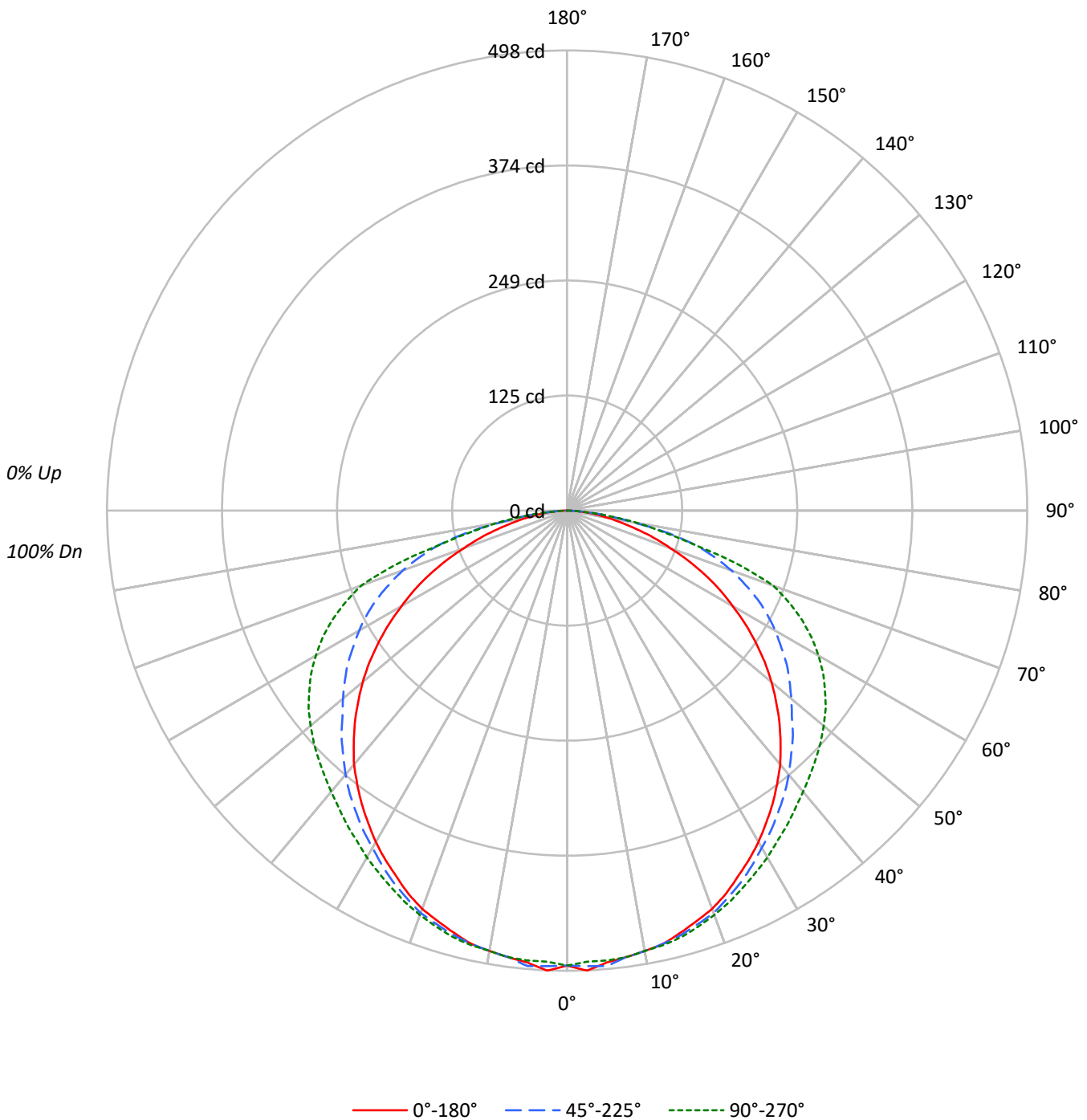
Input Watts (W): 17.949
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1325	1325	1325
5°	1327	1336	1320
10°	1322	1322	1322
15°	1318	1325	1331
20°	1313	1327	1334
25°	1298	1319	1337
30°	1287	1309	1346
35°	1273	1309	1364
40°	1260	1311	1395
45°	1237	1315	1448
50°	1209	1325	1517
55°	1169	1361	1598
60°	1114	1399	1691
65°	1050	1449	1786
70°	938	1487	1865
75°	813	1489	1476
80°	690	1100	1193
85°	596	744	670



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.7	3.0
10°-20°	134.2	8.7
20°-30°	204.6	13.2
30°-40°	250.3	16.1
40°-50°	269.3	17.4
50°-60°	260.9	16.8
60°-70°	221.0	14.3
70°-80°	133.6	8.6
80°-90°	29.3	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°	385.6	24.9
0°-40°	635.9	41.0
0°-60°	1166.1	75.2
0°-90°	1550.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1550.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	492	492	492	492	492	
5°	491	491	495	492	489	47
15°	473	474	476	477	478	134
25°	437	439	444	448	450	202
35°	388	390	398	409	415	242
45°	325	331	346	367	380	250
55°	249	260	290	324	341	223
65°	165	183	228	264	280	162
75°	78	106	143	146	142	84
85°	19	23	24	23	22	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	492.3	492.3	492.3	492.3	492.3
2.5°	498.3	497.1	493.5	491.1	488.7
5°	491.1	491.1	494.7	492.3	488.7
7.5°	487.5	487.5	487.5	493.5	487.5
10°	483.9	485.1	483.9	488.7	483.9
12.5°	480.3	480.3	480.3	481.5	481.5
15°	473.1	474.3	475.5	476.7	477.9
17.5°	465.8	467.0	469.5	470.7	471.9
20°	458.6	459.8	463.4	463.4	465.8
22.5°	449.0	449.0	453.8	455.0	458.6
25°	437.0	439.4	444.2	447.8	450.2
27.5°	426.1	428.5	433.3	438.2	441.8
30°	414.1	416.5	421.3	428.5	433.3
32.5°	400.8	403.2	410.5	418.9	423.7
35°	387.6	390.0	398.4	409.3	415.3
37.5°	373.2	376.8	386.4	398.4	405.7
40°	358.7	362.3	373.2	386.4	397.2
42.5°	341.9	346.7	358.7	376.8	388.8
45°	325.0	331.0	345.5	367.1	380.4
47.5°	306.9	313.0	329.8	357.5	371.9
50°	288.9	296.1	316.6	346.7	362.3
52.5°	269.6	276.9	303.3	335.8	352.7
55°	249.2	260.0	290.1	323.8	340.7
57.5°	228.7	240.7	274.4	310.6	328.6
60°	207.0	221.5	260.0	296.1	314.2
62.5°	186.6	202.2	244.4	280.5	298.5
65°	164.9	183.0	227.5	263.6	280.5
67.5°	142.0	164.9	208.2	243.2	260.0
70°	119.2	145.7	189.0	221.5	237.1
72.5°	98.7	126.4	167.3	195.0	195.0
75°	78.2	105.9	143.2	145.7	142.0
77.5°	60.2	86.7	111.9	102.3	104.7
80°	44.5	66.2	71.0	74.6	77.0
82.5°	30.1	44.5	45.7	48.1	48.1
85°	19.3	22.9	24.1	22.9	21.7
87.5°	8.4	9.6	7.2	4.8	3.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)