

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: P260291

Luminaire Tested: **22CZ-LD5-24-SQP-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260291
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-5500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1586.0 lumens
Efficiency: N/A
Efficacy: 87.9 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

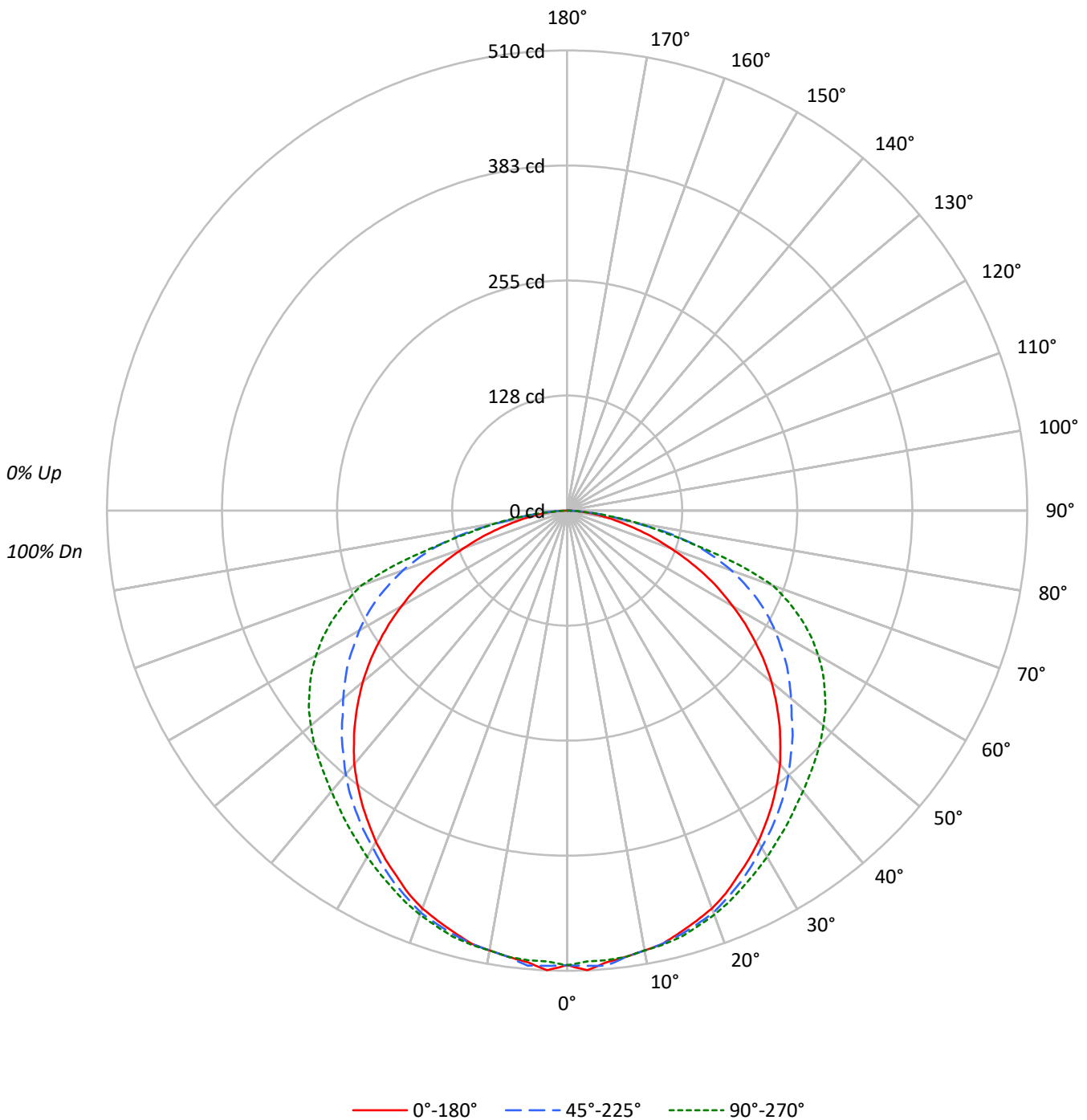
Input Watts (W): 18.042
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1356	1356	1356
5°	1357	1367	1351
10°	1353	1353	1353
15°	1348	1355	1362
20°	1344	1358	1365
25°	1328	1349	1368
30°	1317	1340	1378
35°	1303	1339	1396
40°	1289	1341	1428
45°	1266	1345	1481
50°	1238	1356	1552
55°	1196	1392	1635
60°	1140	1432	1730
65°	1074	1482	1827
70°	959	1522	1909
75°	833	1524	1511
80°	707	1127	1221
85°	608	760	685



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.8	3.0
10°-20°	137.4	8.7
20°-30°	209.3	13.2
30°-40°	256.1	16.1
40°-50°	275.6	17.4
50°-60°	266.9	16.8
60°-70°	226.1	14.3
70°-80°	136.7	8.6
80°-90°	30.0	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°	394.5	24.9
0°-40°	650.6	41.0
0°-60°	1193.1	75.2
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°	504	504	504	504	504	
5°	502	502	506	504	500	48
15°	484	485	486	488	489	137
25°	447	450	454	458	461	206
35°	397	399	408	419	425	248
45°	333	339	354	376	389	256
55°	255	266	297	331	349	228
65°	169	187	233	270	287	166
75°	80	108	147	149	145	86
85°	20	23	25	23	22	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	503.8	503.8	503.8	503.8	503.8
2.5°	509.9	508.7	505.0	502.5	500.1
5°	502.5	502.5	506.2	503.8	500.1
7.5°	498.8	498.8	498.8	505.0	498.8
10°	495.1	496.4	495.1	500.1	495.1
12.5°	491.4	491.4	491.4	492.7	492.7
15°	484.0	485.3	486.5	487.7	489.0
17.5°	476.7	477.9	480.4	481.6	482.8
20°	469.3	470.5	474.2	474.2	476.7
22.5°	459.4	459.4	464.3	465.6	469.3
25°	447.1	449.6	454.5	458.2	460.6
27.5°	436.0	438.5	443.4	448.3	452.0
30°	423.7	426.2	431.1	438.5	443.4
32.5°	410.1	412.6	420.0	428.6	433.6
35°	396.6	399.1	407.7	418.8	424.9
37.5°	381.8	385.5	395.4	407.7	415.1
40°	367.0	370.7	381.8	395.4	406.5
42.5°	349.8	354.7	367.0	385.5	397.8
45°	332.6	338.7	353.5	375.7	389.2
47.5°	314.1	320.2	337.5	365.8	380.6
50°	295.6	303.0	323.9	354.7	370.7
52.5°	275.9	283.3	310.4	343.6	360.9
55°	255.0	266.0	296.8	331.3	348.6
57.5°	234.0	246.3	280.8	317.8	336.2
60°	211.8	226.6	266.0	303.0	321.5
62.5°	190.9	206.9	250.0	287.0	305.5
65°	168.7	187.2	232.8	269.7	287.0
67.5°	145.3	168.7	213.1	248.8	266.0
70°	121.9	149.0	193.4	226.6	242.6
72.5°	101.0	129.3	171.2	199.5	199.5
75°	80.1	108.4	146.6	149.0	145.3
77.5°	61.6	88.7	114.5	104.7	107.2
80°	45.6	67.7	72.7	76.4	78.8
82.5°	30.8	45.6	46.8	49.3	49.3
85°	19.7	23.4	24.6	23.4	22.2
87.5°	8.6	9.9	7.4	4.9	3.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)