

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: P260287

Luminaire Tested: **22CZ-LD5-24-SQP-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260287
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-3500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1490.0 lumens
Efficiency: N/A
Efficacy: 84.3 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

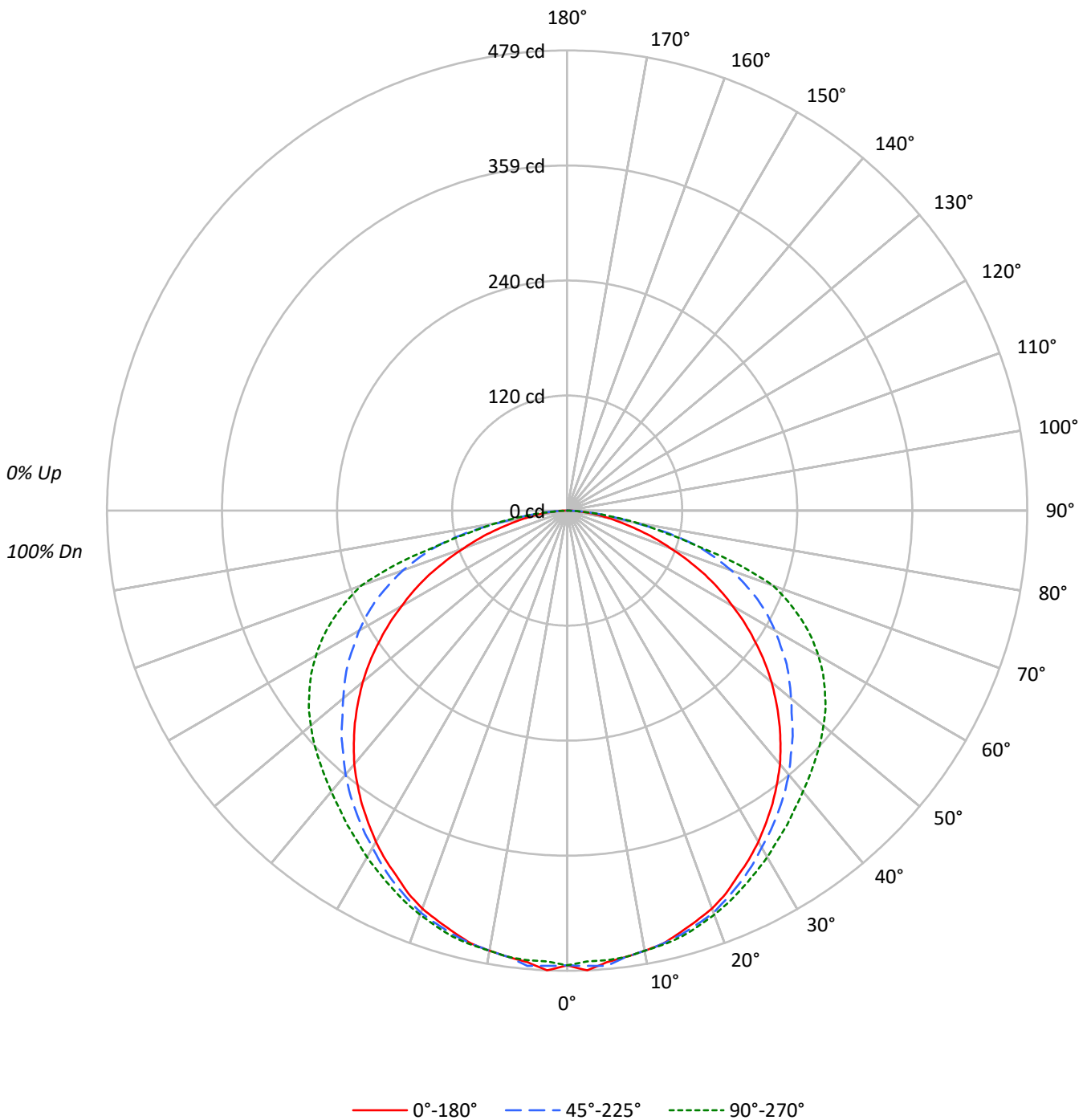
Input Watts (W): 17.67
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1274	1274	1274
5°	1275	1285	1269
10°	1271	1271	1271
15°	1267	1273	1280
20°	1263	1276	1282
25°	1247	1268	1285
30°	1237	1258	1294
35°	1224	1258	1311
40°	1211	1260	1342
45°	1189	1264	1392
50°	1163	1274	1458
55°	1124	1308	1536
60°	1071	1345	1625
65°	1009	1393	1717
70°	902	1430	1794
75°	782	1432	1419
80°	663	1058	1148
85°	571	713	642



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.9	3.0
10°-20°	129.0	8.7
20°-30°	196.7	13.2
30°-40°	240.6	16.1
40°-50°	258.9	17.4
50°-60°	250.8	16.8
60°-70°	212.4	14.3
70°-80°	128.4	8.6
80°-90°	28.2	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°	370.6	24.9
0°-40°	611.2	41.0
0°-60°	1120.9	75.2
0°-90°	1490.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1490.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	473	473	473	473	473	
5°	472	472	476	473	470	45
15°	455	456	457	458	459	128
25°	420	422	427	430	433	194
35°	373	375	383	393	399	233
45°	312	318	332	353	366	241
55°	240	250	279	311	328	214
65°	158	176	219	253	270	156
75°	75	102	138	140	136	81
85°	18	22	23	22	21	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	473.3	473.3	473.3	473.3	473.3
2.5°	479.0	477.9	474.4	472.1	469.8
5°	472.1	472.1	475.6	473.3	469.8
7.5°	468.6	468.6	468.6	474.4	468.6
10°	465.2	466.3	465.2	469.8	465.2
12.5°	461.7	461.7	461.7	462.8	462.8
15°	454.7	455.9	457.1	458.2	459.4
17.5°	447.8	449.0	451.3	452.4	453.6
20°	440.9	442.0	445.5	445.5	447.8
22.5°	431.6	431.6	436.2	437.4	440.9
25°	420.0	422.4	427.0	430.5	432.8
27.5°	409.6	411.9	416.6	421.2	424.7
30°	398.1	400.4	405.0	411.9	416.6
32.5°	385.3	387.6	394.6	402.7	407.3
35°	372.6	374.9	383.0	393.4	399.2
37.5°	358.7	362.2	371.4	383.0	390.0
40°	344.8	348.3	358.7	371.4	381.9
42.5°	328.6	333.3	344.8	362.2	373.8
45°	312.4	318.2	332.1	352.9	365.7
47.5°	295.1	300.9	317.1	343.7	357.6
50°	277.7	284.7	304.3	333.3	348.3
52.5°	259.2	266.1	291.6	322.8	339.0
55°	239.5	249.9	278.9	311.3	327.5
57.5°	219.9	231.4	263.8	298.5	315.9
60°	199.0	212.9	249.9	284.7	302.0
62.5°	179.4	194.4	234.9	269.6	287.0
65°	158.5	175.9	218.7	253.4	269.6
67.5°	136.5	158.5	200.2	233.7	249.9
70°	114.6	140.0	181.7	212.9	228.0
72.5°	94.9	121.5	160.8	187.5	187.5
75°	75.2	101.8	137.7	140.0	136.5
77.5°	57.9	83.3	107.6	98.4	100.7
80°	42.8	63.6	68.3	71.7	74.1
82.5°	28.9	42.8	44.0	46.3	46.3
85°	18.5	22.0	23.1	22.0	20.8
87.5°	8.1	9.3	6.9	4.6	3.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)