

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: P260286

Luminaire Tested: **22CZ-LD5-24-SQP-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260286
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-3000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1440.0 lumens
Efficiency: N/A
Efficacy: 82.4 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

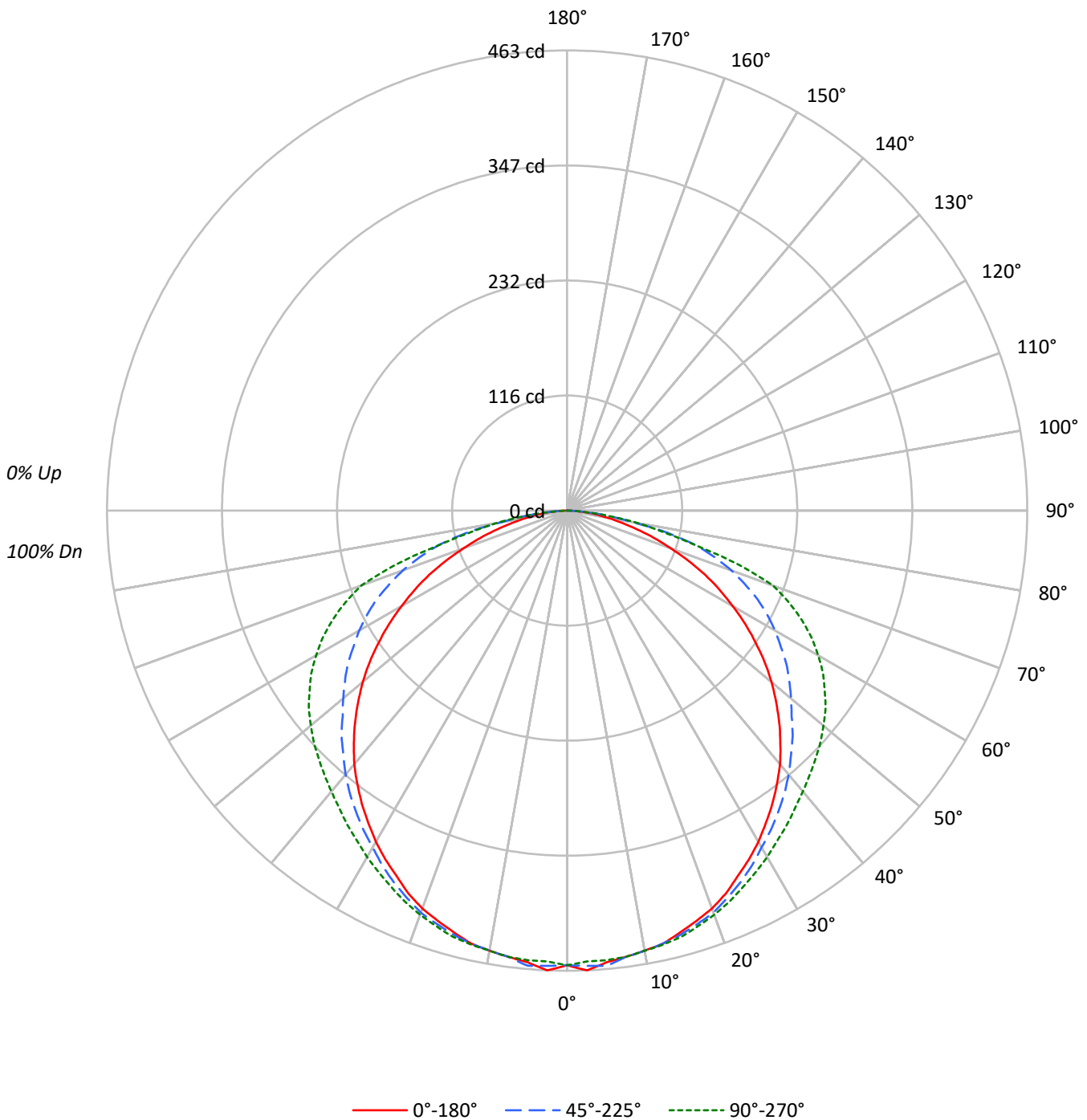
Input Watts (W): 17.484
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1231	1231	1231
5°	1233	1241	1226
10°	1229	1229	1229
15°	1224	1231	1237
20°	1220	1233	1239
25°	1205	1225	1242
30°	1195	1216	1251
35°	1183	1216	1267
40°	1171	1218	1296
45°	1149	1222	1345
50°	1124	1231	1409
55°	1086	1264	1485
60°	1035	1300	1571
65°	975	1346	1659
70°	871	1382	1733
75°	756	1384	1372
80°	642	1023	1110
85°	553	692	621



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.4	3.0
10°-20°	124.7	8.7
20°-30°	190.1	13.2
30°-40°	232.5	16.1
40°-50°	250.2	17.4
50°-60°	242.4	16.8
60°-70°	205.3	14.3
70°-80°	124.1	8.6
80°-90°	27.3	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°	358.2	24.9
0°-40°	590.7	41.0
0°-60°	1083.3	75.2
0°-90°	1440.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1440.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	457	457	457	457	457	
5°	456	456	460	457	454	43
15°	440	441	442	443	444	124
25°	406	408	413	416	418	187
35°	360	362	370	380	386	225
45°	302	308	321	341	353	233
55°	232	242	270	301	316	207
65°	153	170	211	245	261	151
75°	73	98	133	135	132	78
85°	18	21	22	21	20	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	457.4	457.4	457.4	457.4	457.4
2.5°	463.0	461.9	458.5	456.3	454.0
5°	456.3	456.3	459.6	457.4	454.0
7.5°	452.9	452.9	452.9	458.5	452.9
10°	449.6	450.7	449.6	454.0	449.6
12.5°	446.2	446.2	446.2	447.3	447.3
15°	439.5	440.6	441.7	442.8	444.0
17.5°	432.8	433.9	436.1	437.3	438.4
20°	426.1	427.2	430.5	430.5	432.8
22.5°	417.1	417.1	421.6	422.7	426.1
25°	405.9	408.2	412.7	416.0	418.2
27.5°	395.9	398.1	402.6	407.1	410.4
30°	384.7	386.9	391.4	398.1	402.6
32.5°	372.4	374.6	381.3	389.2	393.6
35°	360.1	362.3	370.2	380.2	385.8
37.5°	346.7	350.0	359.0	370.2	376.9
40°	333.3	336.6	346.7	359.0	369.0
42.5°	317.6	322.1	333.3	350.0	361.2
45°	301.9	307.5	321.0	341.1	353.4
47.5°	285.2	290.8	306.4	332.1	345.6
50°	268.4	275.1	294.1	322.1	336.6
52.5°	250.5	257.2	281.8	312.0	327.7
55°	231.5	241.6	269.5	300.8	316.5
57.5°	212.5	223.7	255.0	288.5	305.3
60°	192.3	205.8	241.6	275.1	291.9
62.5°	173.3	187.9	227.0	260.6	277.3
65°	153.2	170.0	211.4	244.9	260.6
67.5°	132.0	153.2	193.5	225.9	241.6
70°	110.7	135.3	175.6	205.8	220.3
72.5°	91.7	117.4	155.4	181.2	181.2
75°	72.7	98.4	133.1	135.3	132.0
77.5°	55.9	80.5	104.0	95.1	97.3
80°	41.4	61.5	66.0	69.3	71.6
82.5°	28.0	41.4	42.5	44.7	44.7
85°	17.9	21.2	22.4	21.2	20.1
87.5°	7.8	8.9	6.7	4.5	3.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)