

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: P259301

Luminaire Tested: **22CZ-LD5-34-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259301
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25706)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-34-UNV-L82765-W2A1-U-5500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3573.0 lumens
Efficiency: N/A
Efficacy: 135.3 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.26 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

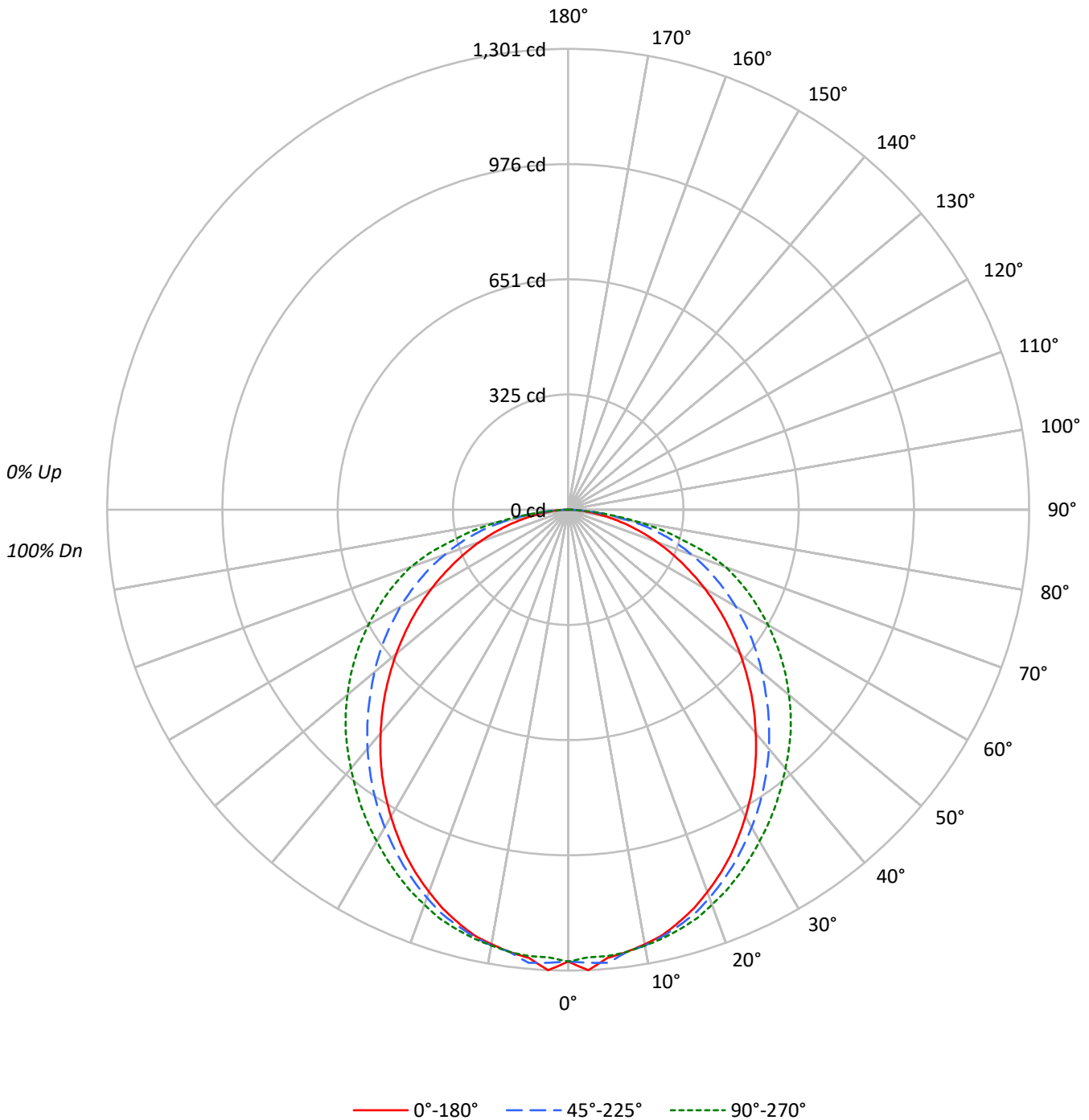
Input Watts (W): 26.412
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	90	79	70	64	87	77	69	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3432	3432	3432
5°	3431	3468	3417
10°	3404	3414	3414
15°	3359	3383	3412
20°	3289	3339	3398
25°	3209	3281	3379
30°	3110	3218	3358
35°	3008	3156	3350
40°	2893	3094	3351
45°	2777	3035	3379
50°	2655	2990	3404
55°	2527	2959	3448
60°	2394	2936	3507
65°	2246	2921	3596
70°	2091	2912	3718
75°	1896	2908	3523
80°	1643	2692	3123
85°	1396	2038	1985



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.0	3.4
10°-20°	342.6	9.6
20°-30°	509.7	14.3
30°-40°	602.8	16.9
40°-50°	619.6	17.3
50°-60°	566.2	15.8
60°-70°	452.9	12.7
70°-80°	284.2	8.0
80°-90°	74.0	2.1
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°	973.3	27.2
0°-40°	1576.1	44.1
0°-60°	2761.8	77.3
0°-90°	3573.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3573.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1275	1275	1275	1275	1275	
5°	1270	1270	1284	1275	1265	121
15°	1206	1208	1214	1222	1225	340
25°	1081	1088	1105	1124	1138	497
35°	916	928	961	997	1020	572
45°	730	749	798	857	888	563
55°	539	565	631	700	735	482
65°	353	384	459	528	565	350
75°	182	217	280	321	339	194
85°	45	57	66	64	64	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1275.3	1275.3	1275.3	1275.3	1275.3
2.5°	1301.4	1296.2	1280.5	1270.1	1264.9
5°	1270.1	1270.1	1284.0	1275.3	1264.9
7.5°	1259.7	1259.7	1259.7	1285.7	1259.7
10°	1245.8	1247.5	1249.3	1259.7	1249.3
12.5°	1230.1	1230.1	1233.6	1237.1	1238.8
15°	1205.8	1207.6	1214.5	1221.5	1224.9
17.5°	1179.8	1185.0	1193.7	1202.3	1209.3
20°	1148.5	1155.4	1165.9	1179.8	1186.7
22.5°	1115.5	1122.4	1136.3	1152.0	1164.1
25°	1080.7	1087.7	1105.0	1124.2	1138.1
27.5°	1040.8	1049.4	1070.3	1096.4	1110.3
30°	1000.8	1011.2	1035.5	1065.1	1080.7
32.5°	959.1	971.3	999.1	1032.1	1051.2
35°	915.7	927.8	960.8	997.3	1019.9
37.5°	870.5	884.4	920.9	962.6	986.9
40°	823.6	839.2	880.9	926.1	953.9
42.5°	776.7	794.0	839.2	893.1	920.9
45°	729.7	748.9	797.5	856.6	887.9
47.5°	681.1	703.7	754.1	820.1	851.4
50°	634.2	656.8	714.1	781.9	813.1
52.5°	585.5	611.6	672.4	741.9	774.9
55°	538.6	564.7	630.7	700.2	735.0
57.5°	491.7	517.8	587.3	658.5	693.3
60°	444.8	472.6	545.6	615.1	651.6
62.5°	397.9	427.4	502.1	573.4	608.1
65°	352.7	384.0	458.7	528.2	564.7
67.5°	309.3	342.3	415.3	483.0	519.5
70°	265.8	298.8	370.1	436.1	472.6
72.5°	224.1	257.1	326.6	385.7	413.5
75°	182.4	217.2	279.7	321.4	338.8
77.5°	142.5	177.2	231.1	258.9	278.0
80°	106.0	135.5	173.7	194.6	201.5
82.5°	73.0	97.3	121.6	126.8	130.3
85°	45.2	57.3	66.0	64.3	64.3
87.5°	20.8	22.6	19.1	13.9	8.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)