

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: P260500

Luminaire Tested: **22CZ-LD5-20-RDP-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260500
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25714)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-20-RDP-UNV-L92765-W2A1-U-3500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1362.0 lumens
Efficiency: N/A
Efficacy: 87.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

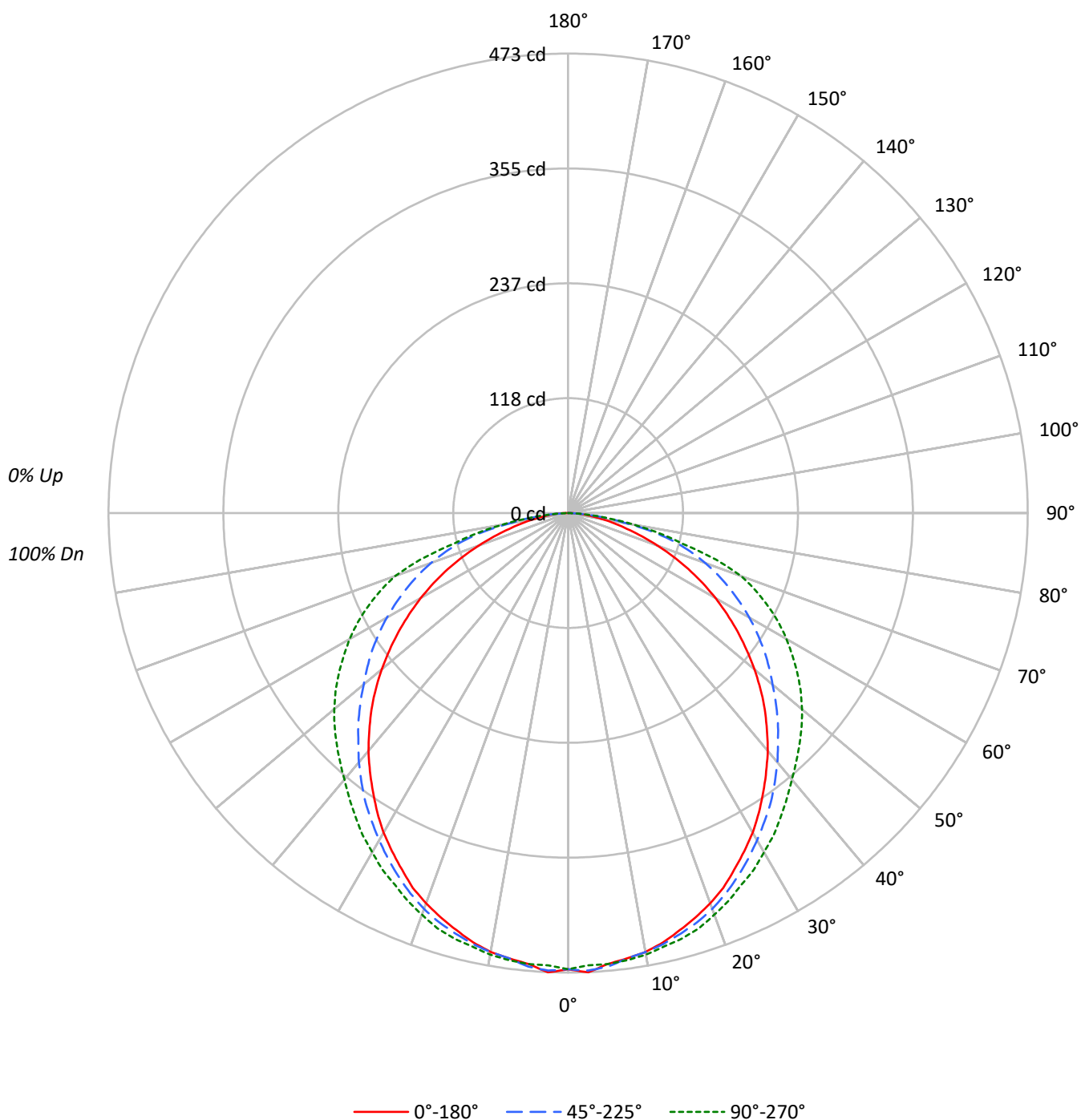
Input Watts (W): 15.531
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85
2	98	90	83	77	96	88	81	76	84	79	74	81	77	73	78	74	71
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34
8	60	46	37	31	58	45	37	31	44	37	31	43	36	31	42	35	31
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	36	30	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1264	1264	1264
5°	1259	1266	1259
10°	1254	1254	1261
15°	1238	1248	1263
20°	1224	1242	1260
25°	1202	1226	1253
30°	1180	1208	1253
35°	1150	1194	1254
40°	1123	1176	1258
45°	1090	1162	1281
50°	1049	1150	1315
55°	998	1154	1352
60°	942	1160	1397
65°	869	1167	1447
70°	770	1179	1490
75°	653	1176	1269
80°	542	947	1057
85°	472	639	611



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.4	3.3
10°-20°	126.5	9.3
20°-30°	190.4	14.0
30°-40°	228.2	16.8
40°-50°	237.9	17.5
50°-60°	221.5	16.3
60°-70°	179.9	13.2
70°-80°	108.4	8.0
80°-90°	24.9	1.8
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°	361.3	26.5
0°-40°	589.4	43.3
0°-60°	1048.9	77.0
0°-90°	1362.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1362.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	470	470	470	470	470	
5°	466	466	469	470	466	44
15°	444	446	448	451	453	125
25°	405	408	413	418	422	187
35°	350	355	364	374	382	219
45°	286	292	305	325	337	220
55°	213	222	246	273	288	190
65°	136	151	183	212	227	135
75°	63	84	113	120	122	68
85°	15	19	21	20	20	18
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	469.6	469.6	469.6	469.6	469.6
2.5°	473.2	472.3	471.4	468.7	466.0
5°	466.0	466.0	468.7	469.6	466.0
7.5°	462.4	462.4	462.4	466.0	464.2
10°	458.8	458.8	458.8	461.5	461.5
12.5°	452.5	453.4	454.3	455.2	457.0
15°	444.4	446.2	448.0	450.7	453.4
17.5°	436.3	438.1	441.7	444.4	448.0
20°	427.4	429.2	433.7	436.3	439.9
22.5°	417.5	418.4	423.8	427.4	431.9
25°	404.9	407.6	413.0	418.4	422.0
27.5°	392.4	395.0	401.3	408.5	413.9
30°	379.8	382.5	388.8	397.7	403.1
32.5°	365.4	369.0	376.2	387.0	393.3
35°	350.2	354.6	363.6	374.4	381.6
37.5°	334.9	339.4	349.3	362.7	369.9
40°	319.6	324.1	334.9	349.3	358.2
42.5°	302.6	308.0	319.6	336.7	347.5
45°	286.4	291.8	305.3	325.0	336.7
47.5°	268.5	274.7	290.0	312.4	325.9
50°	250.5	257.7	274.7	299.9	314.2
52.5°	231.6	239.7	260.4	286.4	301.7
55°	212.8	221.8	246.0	272.9	288.2
57.5°	193.9	203.8	230.7	258.6	273.8
60°	175.1	185.9	215.5	244.2	259.5
62.5°	156.2	167.9	199.3	228.0	244.2
65°	136.5	150.8	183.2	211.9	227.2
67.5°	116.7	133.8	167.0	194.8	209.2
70°	97.9	116.7	149.9	176.0	189.4
72.5°	79.9	99.7	132.0	154.4	159.8
75°	62.8	83.5	113.1	120.3	122.1
77.5°	48.5	67.3	89.8	91.6	96.1
80°	35.0	51.2	61.1	66.4	68.2
82.5°	24.2	35.0	40.4	41.3	42.2
85°	15.3	18.9	20.7	19.8	19.8
87.5°	8.1	7.2	6.3	4.5	3.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)