

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: P260499

Luminaire Tested: **22CZ-LD5-20-RDP-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260499
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-3000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1297.0 lumens
Efficiency: N/A
Efficacy: 84.5 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

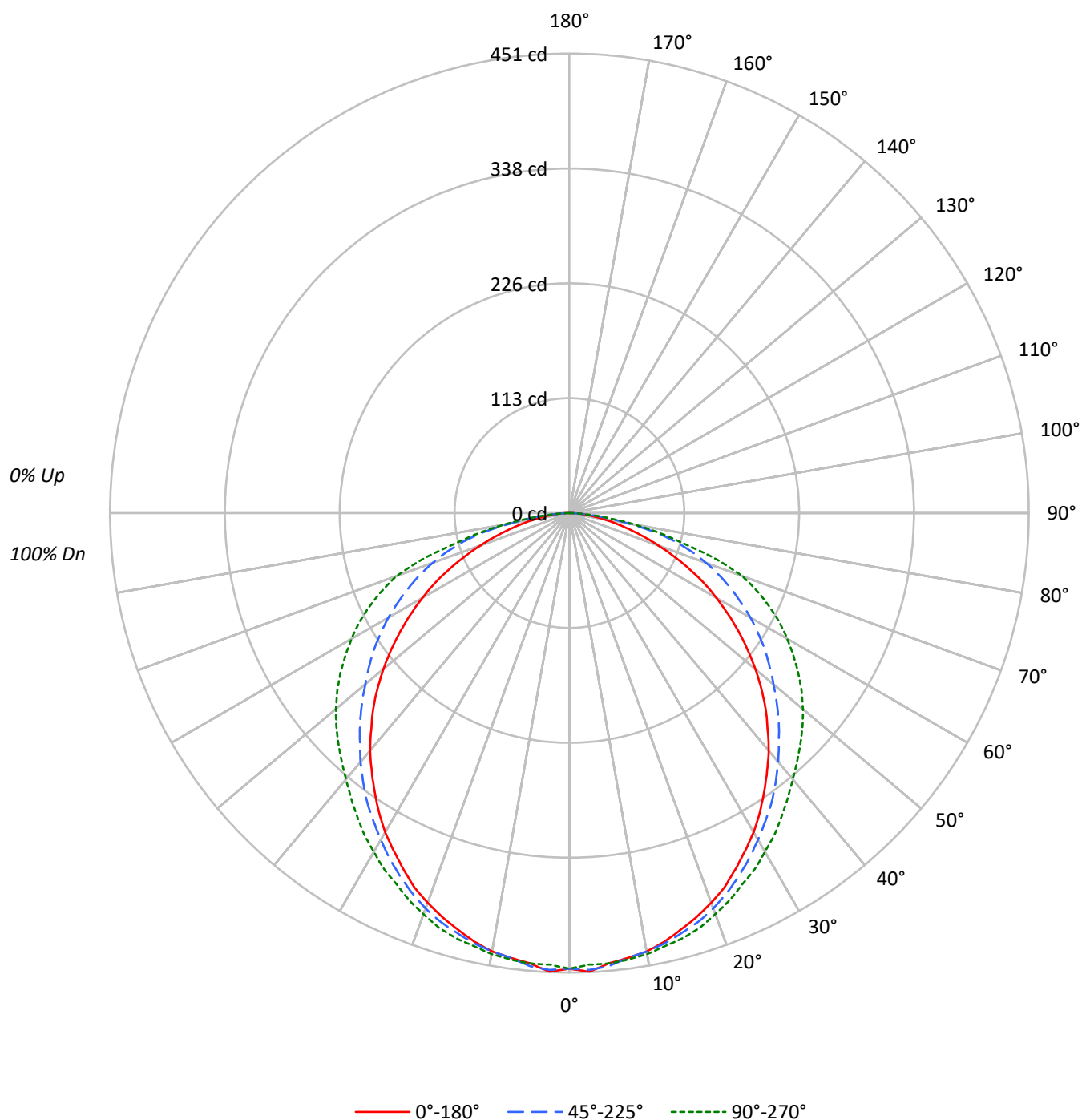
Input Watts (W): 15.345
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1203	1203	1203
5°	1199	1206	1199
10°	1194	1194	1201
15°	1179	1188	1203
20°	1166	1183	1200
25°	1145	1168	1193
30°	1124	1150	1193
35°	1095	1138	1194
40°	1069	1120	1198
45°	1038	1106	1220
50°	998	1095	1253
55°	951	1099	1288
60°	897	1104	1330
65°	828	1110	1377
70°	733	1124	1419
75°	622	1120	1209
80°	516	900	1007
85°	448	608	580



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.2	3.3
10°-20°	120.5	9.3
20°-30°	181.3	14.0
30°-40°	217.3	16.8
40°-50°	226.6	17.5
50°-60°	210.9	16.3
60°-70°	171.3	13.2
70°-80°	103.2	8.0
80°-90°	23.7	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°	344.1	26.5
0°-40°	561.3	43.3
0°-60°	998.8	77.0
0°-90°	1297.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1297.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	447	447	447	447	447	
5°	444	444	446	447	444	42
15°	423	425	427	429	432	119
25°	386	388	393	398	402	178
35°	333	338	346	356	363	209
45°	273	278	291	310	321	210
55°	203	211	234	260	274	181
65°	130	144	174	202	216	129
75°	60	80	108	115	116	65
85°	14	18	20	19	19	17
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	447.2	447.2	447.2	447.2	447.2
2.5°	450.6	449.7	448.9	446.3	443.7
5°	443.7	443.7	446.3	447.2	443.7
7.5°	440.3	440.3	440.3	443.7	442.0
10°	436.9	436.9	436.9	439.5	439.5
12.5°	430.9	431.8	432.6	433.5	435.2
15°	423.2	424.9	426.6	429.2	431.8
17.5°	415.5	417.2	420.7	423.2	426.6
20°	407.0	408.7	413.0	415.5	418.9
22.5°	397.6	398.4	403.6	407.0	411.2
25°	385.6	388.2	393.3	398.4	401.8
27.5°	373.6	376.2	382.2	389.0	394.1
30°	361.7	364.2	370.2	378.8	383.9
32.5°	348.0	351.4	358.2	368.5	374.5
35°	333.4	337.7	346.3	356.5	363.4
37.5°	318.9	323.2	332.6	345.4	352.3
40°	304.4	308.6	318.9	332.6	341.1
42.5°	288.1	293.3	304.4	320.6	330.9
45°	272.7	277.9	290.7	309.5	320.6
47.5°	255.6	261.6	276.2	297.5	310.4
50°	238.5	245.4	261.6	285.6	299.2
52.5°	220.6	228.3	247.9	272.7	287.3
55°	202.6	211.2	234.3	259.9	274.5
57.5°	184.7	194.1	219.7	246.2	260.8
60°	166.7	177.0	205.2	232.6	247.1
62.5°	148.8	159.9	189.8	217.2	232.6
65°	130.0	143.6	174.4	201.8	216.3
67.5°	111.1	127.4	159.0	185.5	199.2
70°	93.2	111.1	142.8	167.6	180.4
72.5°	76.1	94.9	125.7	147.1	152.2
75°	59.8	79.5	107.7	114.6	116.3
77.5°	46.2	64.1	85.5	87.2	91.5
80°	33.3	48.7	58.1	63.3	65.0
82.5°	23.1	33.3	38.5	39.3	40.2
85°	14.5	18.0	19.7	18.8	18.8
87.5°	7.7	6.8	6.0	4.3	3.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)