

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: P260217

Luminaire Tested: **22CZ-LD5-20-SQP-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260217
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-LD5-20-SQP-UNV-L83050-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: 1351.9 lumens
Efficiency: N/A
Efficacy: 87.0 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

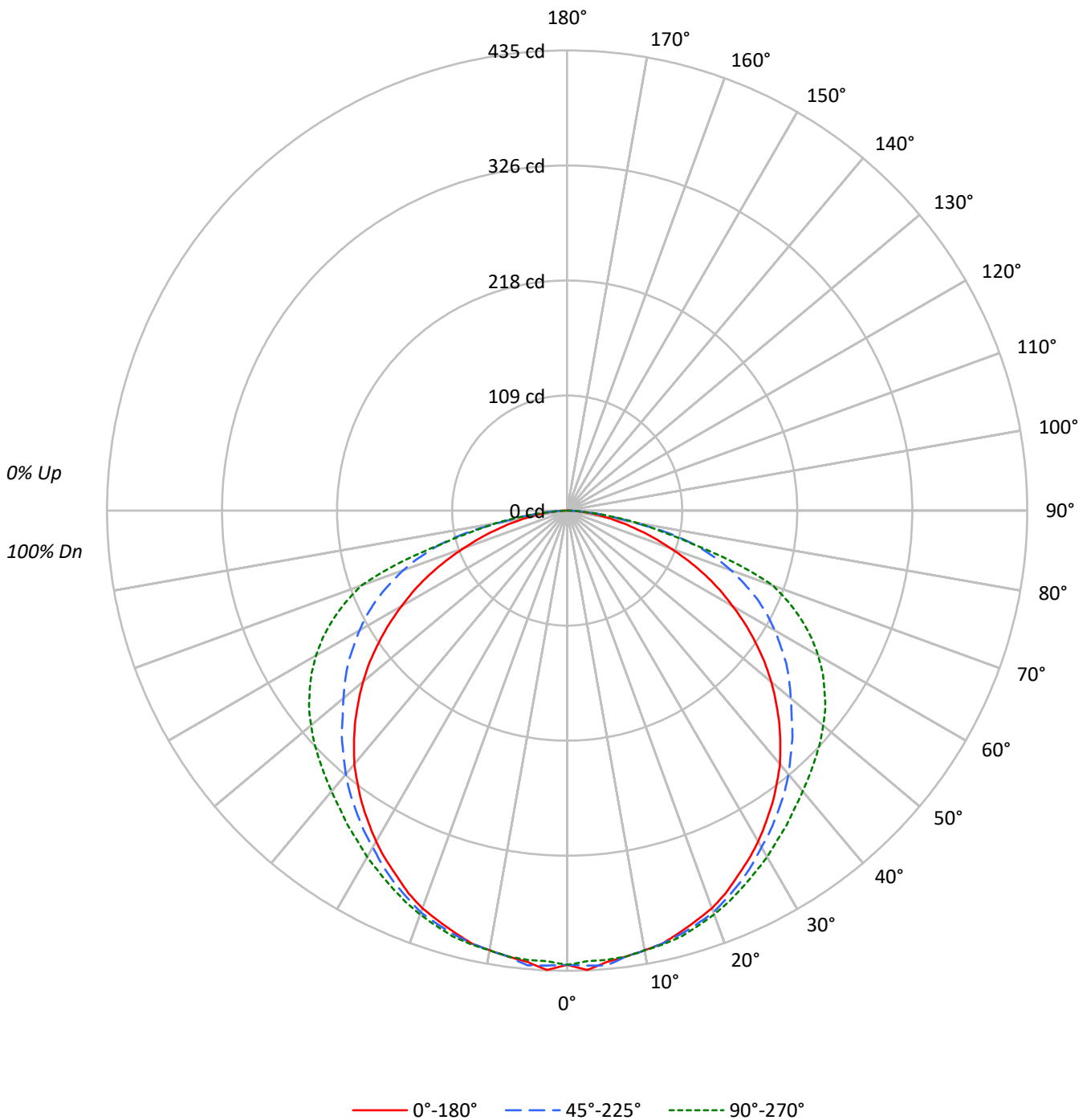
Input Watts (W): 15.531
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1156	1156	1156
5°	1157	1166	1152
10°	1153	1153	1153
15°	1149	1155	1161
20°	1145	1157	1164
25°	1132	1150	1166
30°	1122	1142	1175
35°	1111	1142	1190
40°	1099	1143	1217
45°	1079	1147	1263
50°	1055	1156	1323
55°	1019	1187	1394
60°	972	1221	1475
65°	916	1263	1557
70°	817	1297	1627
75°	709	1299	1288
80°	601	959	1041
85°	519	648	584



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.8	3.0
10°-20°	117.1	8.7
20°-30°	178.4	13.2
30°-40°	218.3	16.1
40°-50°	234.9	17.4
50°-60°	227.6	16.8
60°-70°	192.7	14.3
70°-80°	116.5	8.6
80°-90°	25.6	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°	336.3	24.9
0°-40°	554.6	41.0
0°-60°	1017.1	75.2
0°-90°	1351.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1351.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	429	429	429	429	429	
5°	428	428	432	429	426	41
15°	413	414	415	416	417	117
25°	381	383	387	391	393	176
35°	338	340	348	357	362	211
45°	284	289	301	320	332	218
55°	217	227	253	282	297	194
65°	144	160	198	230	245	142
75°	68	92	125	127	124	73
85°	17	20	21	20	19	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	429.4	429.4	429.4	429.4	429.4
2.5°	434.7	433.6	430.5	428.4	426.3
5°	428.4	428.4	431.5	429.4	426.3
7.5°	425.2	425.2	425.2	430.5	425.2
10°	422.1	423.1	422.1	426.3	422.1
12.5°	418.9	418.9	418.9	420.0	420.0
15°	412.6	413.7	414.7	415.8	416.8
17.5°	406.3	407.4	409.5	410.5	411.6
20°	400.0	401.1	404.2	404.2	406.3
22.5°	391.6	391.6	395.8	396.9	400.0
25°	381.1	383.2	387.4	390.6	392.7
27.5°	371.7	373.8	378.0	382.2	385.3
30°	361.2	363.3	367.5	373.8	378.0
32.5°	349.6	351.7	358.0	365.4	369.6
35°	338.1	340.2	347.5	357.0	362.2
37.5°	325.5	328.6	337.0	347.5	353.8
40°	312.9	316.0	325.5	337.0	346.5
42.5°	298.2	302.4	312.9	328.6	339.1
45°	283.5	288.7	301.3	320.2	331.8
47.5°	267.7	273.0	287.7	311.8	324.4
50°	252.0	258.3	276.1	302.4	316.0
52.5°	235.2	241.5	264.6	292.9	307.6
55°	217.3	226.8	253.0	282.4	297.1
57.5°	199.5	210.0	239.4	270.9	286.6
60°	180.6	193.2	226.8	258.3	274.0
62.5°	162.7	176.4	213.1	244.6	260.4
65°	143.8	159.6	198.4	229.9	244.6
67.5°	123.9	143.8	181.6	212.1	226.8
70°	103.9	127.0	164.8	193.2	206.8
72.5°	86.1	110.2	145.9	170.1	170.1
75°	68.2	92.4	124.9	127.0	123.9
77.5°	52.5	75.6	97.6	89.2	91.3
80°	38.8	57.7	61.9	65.1	67.2
82.5°	26.2	38.8	39.9	42.0	42.0
85°	16.8	19.9	21.0	19.9	18.9
87.5°	7.3	8.4	6.3	4.2	3.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)