

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: P260279

Luminaire Tested: **22CZ-LD5-20-SQP-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260279
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-L82765-W2A1-U-4000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1350.0 lumens
Efficiency: N/A
Efficacy: 85.9 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

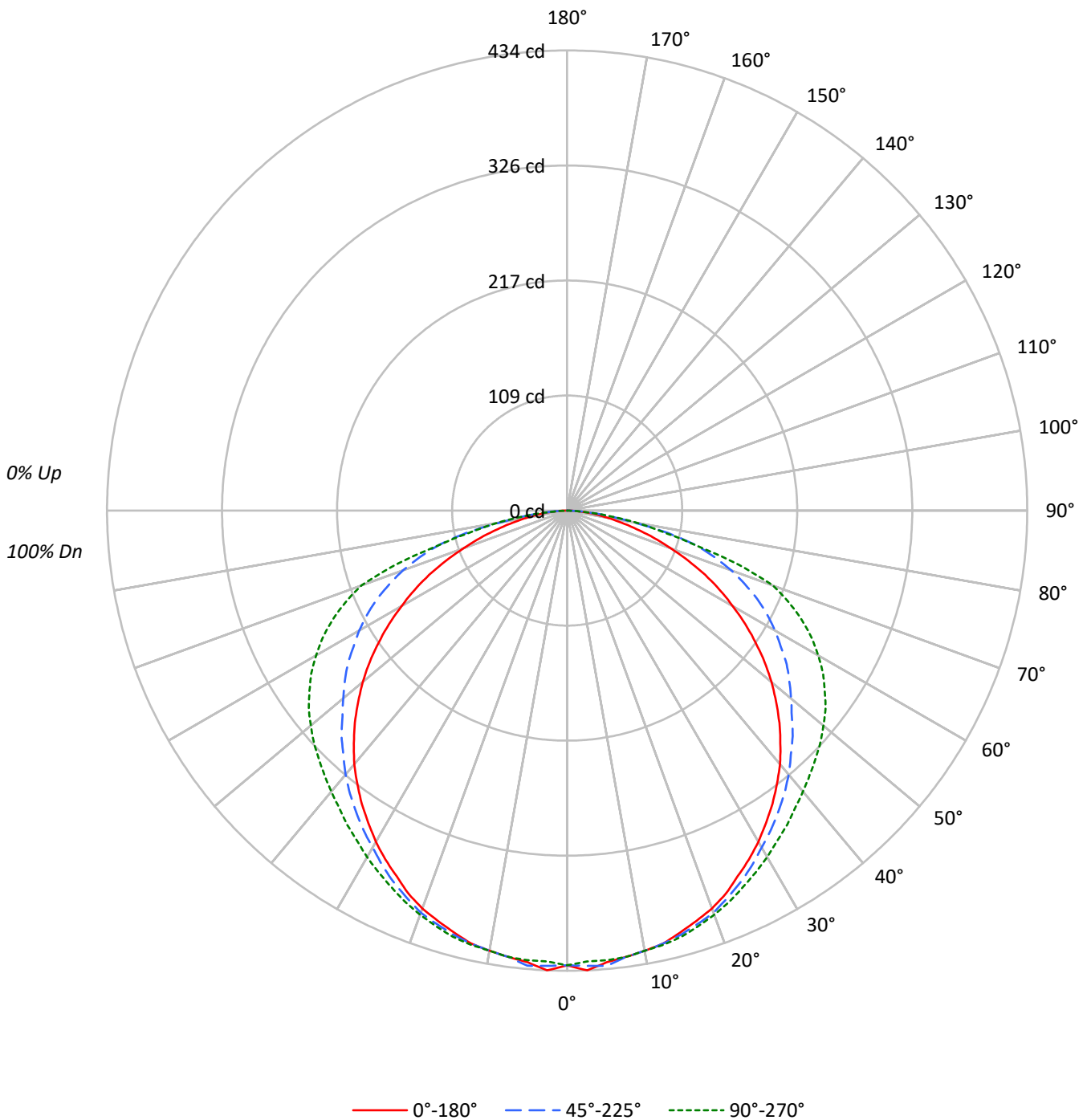
Input Watts (W): 15.717
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1154	1154	1154
5°	1155	1164	1150
10°	1152	1152	1152
15°	1148	1154	1159
20°	1144	1156	1162
25°	1130	1149	1164
30°	1121	1140	1173
35°	1109	1140	1188
40°	1097	1142	1215
45°	1077	1145	1261
50°	1053	1154	1321
55°	1018	1186	1392
60°	970	1219	1473
65°	914	1261	1556
70°	817	1295	1625
75°	708	1298	1286
80°	601	959	1040
85°	519	648	584



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.7	3.0
10°-20°	116.9	8.7
20°-30°	178.2	13.2
30°-40°	218.0	16.1
40°-50°	234.6	17.4
50°-60°	227.2	16.8
60°-70°	192.5	14.3
70°-80°	116.4	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°	335.8	24.9
0°-40°	553.8	41.0
0°-60°	1015.6	75.2
0°-90°	1350.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1350.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	429	429	429	429	429	
5°	428	428	431	429	426	41
15°	412	413	414	415	416	116
25°	381	383	387	390	392	176
35°	338	340	347	356	362	211
45°	283	288	301	320	331	218
55°	217	226	253	282	297	194
65°	144	159	198	230	244	141
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°	428.8	428.8	428.8	428.8	428.8
2.5°	434.0	433.0	429.8	427.7	425.7
5°	427.7	427.7	430.9	428.8	425.7
7.5°	424.6	424.6	424.6	429.8	424.6
10°	421.5	422.5	421.5	425.7	421.5
12.5°	418.3	418.3	418.3	419.4	419.4
15°	412.0	413.1	414.1	415.2	416.2
17.5°	405.7	406.8	408.9	409.9	411.0
20°	399.4	400.5	403.6	403.6	405.7
22.5°	391.1	391.1	395.2	396.3	399.4
25°	380.6	382.7	386.9	390.0	392.1
27.5°	371.1	373.2	377.4	381.6	384.8
30°	360.7	362.7	366.9	373.2	377.4
32.5°	349.1	351.2	357.5	364.8	369.0
35°	337.6	339.7	347.0	356.5	361.7
37.5°	325.0	328.1	336.5	347.0	353.3
40°	312.4	315.6	325.0	336.5	346.0
42.5°	297.7	301.9	312.4	328.1	338.6
45°	283.1	288.3	300.9	319.8	331.3
47.5°	267.3	272.6	287.3	311.4	324.0
50°	251.6	257.9	275.7	301.9	315.6
52.5°	234.8	241.1	264.2	292.5	307.2
55°	217.0	226.5	252.7	282.0	296.7
57.5°	199.2	209.7	239.0	270.5	286.2
60°	180.3	192.9	226.5	257.9	273.6
62.5°	162.5	176.1	212.8	244.3	260.0
65°	143.6	159.4	198.1	229.6	244.3
67.5°	123.7	143.6	181.4	211.8	226.5
70°	103.8	126.9	164.6	192.9	206.5
72.5°	86.0	110.1	145.7	169.8	169.8
75°	68.1	92.3	124.8	126.9	123.7
77.5°	52.4	75.5	97.5	89.1	91.2
80°	38.8	57.7	61.9	65.0	67.1
82.5°	26.2	38.8	39.8	41.9	41.9
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)