

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: P260284

Luminaire Tested: **22CZ-LD5-20-SQP-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260284
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-6500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1414.0 lumens
Efficiency: N/A
Efficacy: 87.4 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

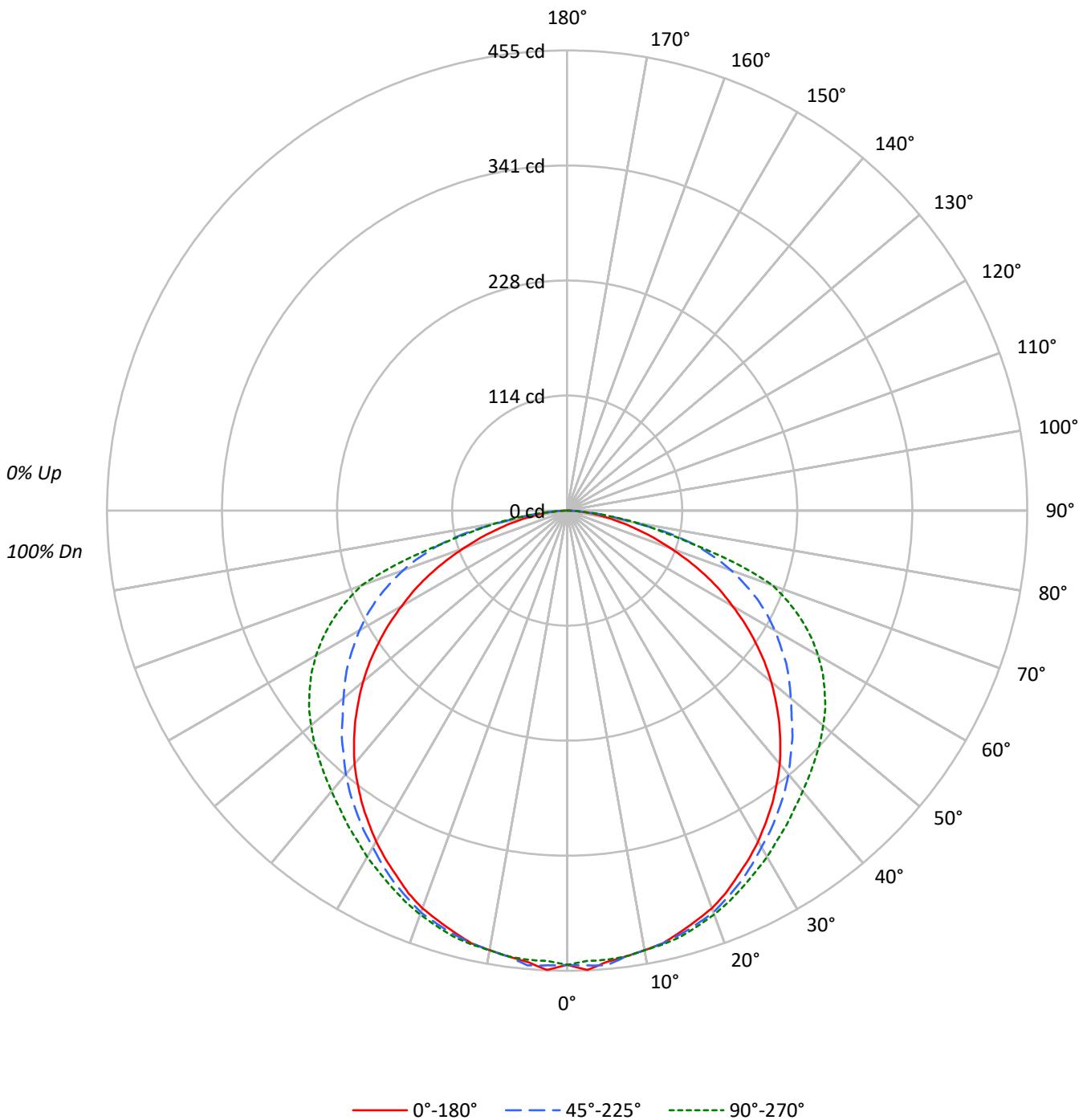
Input Watts (W): 16.182
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1209	1209	1209
5°	1210	1219	1204
10°	1206	1206	1206
15°	1202	1209	1214
20°	1198	1211	1217
25°	1184	1203	1219
30°	1174	1194	1228
35°	1162	1194	1244
40°	1149	1196	1273
45°	1128	1200	1321
50°	1103	1209	1384
55°	1066	1241	1458
60°	1017	1277	1542
65°	958	1321	1629
70°	855	1356	1702
75°	742	1359	1347
80°	629	1004	1089
85°	543	679	611



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.6	3.0
10°-20°	122.5	8.7
20°-30°	186.6	13.2
30°-40°	228.3	16.1
40°-50°	245.7	17.4
50°-60°	238.0	16.8
60°-70°	201.6	14.3
70°-80°	121.9	8.6
80°-90°	26.8	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°	351.7	24.9
0°-40°	580.1	41.0
0°-60°	1063.8	75.2
0°-90°	1414.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1414.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	449	449	449	449	449	
5°	448	448	451	449	446	43
15°	432	433	434	435	436	122
25°	399	401	405	408	411	184
35°	354	356	364	373	379	221
45°	296	302	315	335	347	229
55°	227	237	265	295	311	203
65°	150	167	208	240	256	148
75°	71	97	131	133	130	77
85°	18	21	22	21	20	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	449.1	449.1	449.1	449.1	449.1
2.5°	454.6	453.5	450.2	448.0	445.8
5°	448.0	448.0	451.3	449.1	445.8
7.5°	444.7	444.7	444.7	450.2	444.7
10°	441.4	442.5	441.4	445.8	441.4
12.5°	438.1	438.1	438.1	439.2	439.2
15°	431.6	432.7	433.8	434.8	435.9
17.5°	425.0	426.1	428.3	429.4	430.5
20°	418.4	419.5	422.8	422.8	425.0
22.5°	409.6	409.6	414.0	415.1	418.4
25°	398.6	400.8	405.2	408.5	410.7
27.5°	388.7	390.9	395.3	399.7	403.0
30°	377.7	379.9	384.3	390.9	395.3
32.5°	365.7	367.9	374.5	382.1	386.5
35°	353.6	355.8	363.5	373.4	378.8
37.5°	340.4	343.7	352.5	363.5	370.1
40°	327.2	330.5	340.4	352.5	362.4
42.5°	311.9	316.3	327.2	343.7	354.7
45°	296.5	302.0	315.2	334.9	347.0
47.5°	280.0	285.5	300.9	326.1	339.3
50°	263.5	270.1	288.8	316.3	330.5
52.5°	246.0	252.6	276.7	306.4	321.7
55°	227.3	237.2	264.6	295.4	310.8
57.5°	208.6	219.6	250.4	283.3	299.8
60°	188.9	202.1	237.2	270.1	286.6
62.5°	170.2	184.5	222.9	255.9	272.3
65°	150.4	166.9	207.5	240.5	255.9
67.5°	129.6	150.4	190.0	221.8	237.2
70°	108.7	132.9	172.4	202.1	216.3
72.5°	90.0	115.3	152.6	177.9	177.9
75°	71.4	96.6	130.7	132.9	129.6
77.5°	54.9	79.1	102.1	93.3	95.5
80°	40.6	60.4	64.8	68.1	70.3
82.5°	27.5	40.6	41.7	43.9	43.9
85°	17.6	20.9	22.0	20.9	19.8
87.5°	7.7	8.8	6.6	4.4	3.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)