

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: P260341

Luminaire Tested: **22CZ-LD5-24-SQP-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260341
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-LD5-24-SQP-UNV-L92765-W2A1-U-3500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1305.0 lumens
Efficiency: N/A
Efficacy: 74.2 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

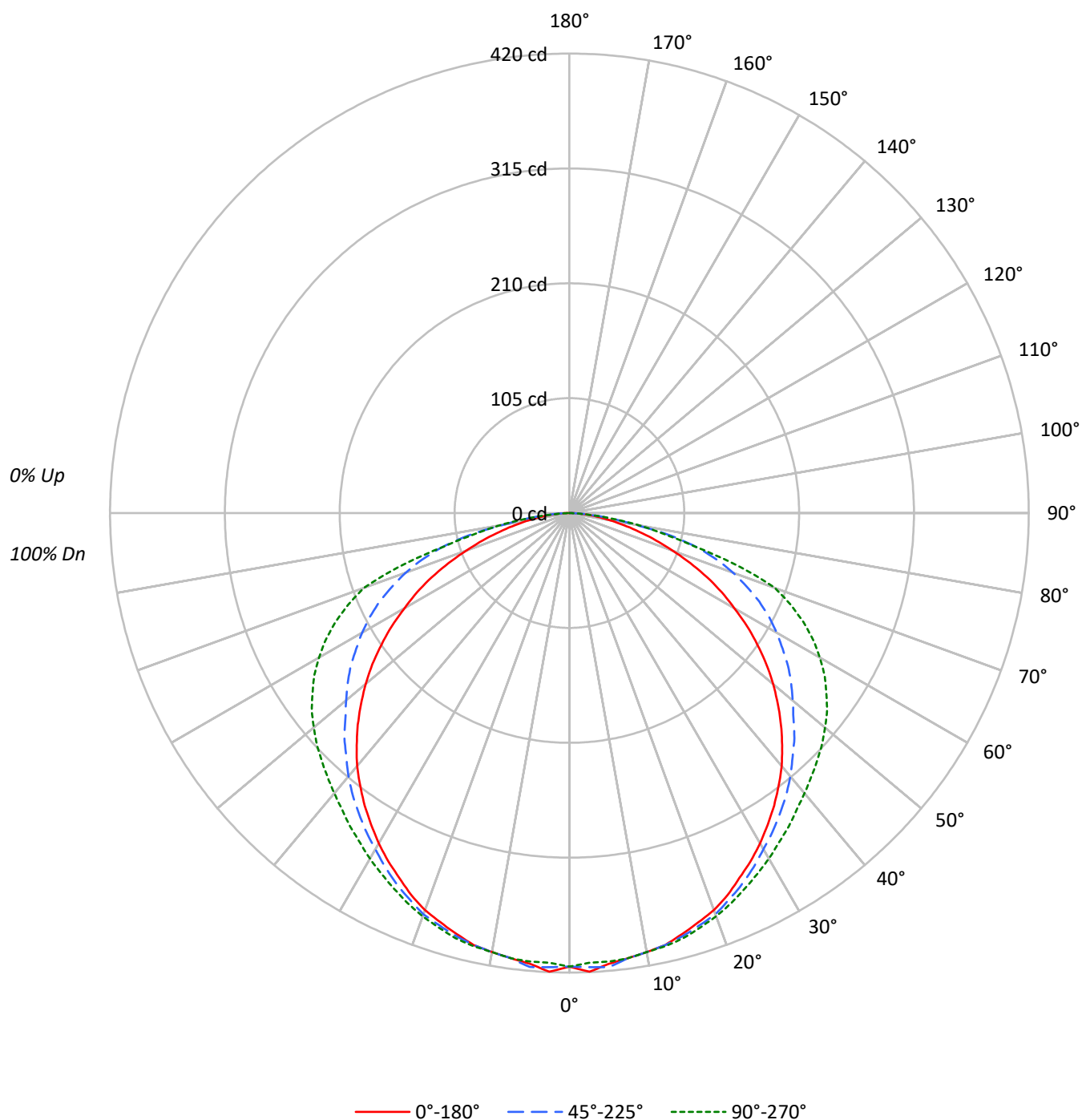
Input Watts (W): 17.577
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	99	95	105	101	97	93	97	93	90		93	90	87		89
2	98	89	82	76	95	87	81	75	84	78	73		80	76	71		77
3	89	78	69	62	86	76	68	62	73	66	61		70	64	59		68
4	81	68	59	52	79	67	58	52	64	57	51		62	56	50		60
5	74	61	52	45	72	60	51	44	58	50	44		56	49	43		54
6	68	55	45	39	66	54	45	39	52	44	38		50	43	38		48
7	63	49	40	34	62	49	40	34	47	39	34		45	39	33		44
8	59	45	36	30	57	44	36	30	43	35	30		42	35	30		40
9	55	41	33	27	54	41	33	27	39	32	27		38	32	27		37
10	51	38	30	24	50	37	30	24	36	29	24		35	29	24		35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1115	1115	1115
5°	1117	1125	1112
10°	1113	1113	1113
15°	1110	1115	1121
20°	1106	1117	1123
25°	1092	1110	1125
30°	1083	1102	1134
35°	1072	1102	1148
40°	1061	1104	1175
45°	1041	1107	1219
50°	1018	1116	1277
55°	984	1146	1346
60°	938	1178	1424
65°	884	1219	1503
70°	789	1252	1571
75°	685	1254	1243
80°	581	927	1006
85°	500	627	562



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.4	3.0
10°-20°	113.0	8.7
20°-30°	172.2	13.2
30°-40°	210.7	16.1
40°-50°	226.8	17.4
50°-60°	219.6	16.8
60°-70°	186.0	14.3
70°-80°	112.5	8.6
80°-90°	24.7	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°	324.6	24.9
0°-40°	535.4	41.0
0°-60°	981.8	75.2
0°-90°	1305.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1305.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	414	414	414	414	414	
5°	414	414	416	414	412	39
15°	398	399	400	401	402	112
25°	368	370	374	377	379	170
35°	326	328	336	345	350	204
45°	274	279	291	309	320	211
55°	210	219	244	273	287	187
65°	139	154	192	222	236	137
75°	66	89	121	123	120	71
85°	16	19	20	19	18	18
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	414.5	414.5	414.5	414.5	414.5
2.5°	419.6	418.6	415.5	413.5	411.5
5°	413.5	413.5	416.5	414.5	411.5
7.5°	410.4	410.4	410.4	415.5	410.4
10°	407.4	408.4	407.4	411.5	407.4
12.5°	404.4	404.4	404.4	405.4	405.4
15°	398.3	399.3	400.3	401.3	402.3
17.5°	392.2	393.2	395.2	396.3	397.3
20°	386.1	387.1	390.2	390.2	392.2
22.5°	378.0	378.0	382.1	383.1	386.1
25°	367.9	369.9	374.0	377.0	379.0
27.5°	358.8	360.8	364.8	368.9	371.9
30°	348.6	350.7	354.7	360.8	364.8
32.5°	337.5	339.5	345.6	352.7	356.7
35°	326.3	328.4	335.5	344.6	349.6
37.5°	314.2	317.2	325.3	335.5	341.5
40°	302.0	305.0	314.2	325.3	334.4
42.5°	287.8	291.9	302.0	317.2	327.3
45°	273.6	278.7	290.9	309.1	320.3
47.5°	258.4	263.5	277.7	301.0	313.2
50°	243.2	249.3	266.5	291.9	305.0
52.5°	227.0	233.1	255.4	282.8	296.9
55°	209.8	218.9	244.2	272.6	286.8
57.5°	192.6	202.7	231.1	261.5	276.7
60°	174.3	186.5	218.9	249.3	264.5
62.5°	157.1	170.3	205.7	236.1	251.3
65°	138.8	154.0	191.5	221.9	236.1
67.5°	119.6	138.8	175.3	204.7	218.9
70°	100.3	122.6	159.1	186.5	199.7
72.5°	83.1	106.4	140.9	164.2	164.2
75°	65.9	89.2	120.6	122.6	119.6
77.5°	50.7	73.0	94.3	86.1	88.2
80°	37.5	55.7	59.8	62.8	64.9
82.5°	25.3	37.5	38.5	40.5	40.5
85°	16.2	19.3	20.3	19.3	18.2
87.5°	7.1	8.1	6.1	4.1	3.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)