

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: P230800

Luminaire Tested: **22CZ-LD5-24-SQP-UNV-L930-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230800
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-L930-CD1-U
Description: CRUZE 2x2 LED TROFFER
WITH SQP LENS
Light Source: (84) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1413.0 lumens
Efficiency: N/A
Efficacy: 72.1 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

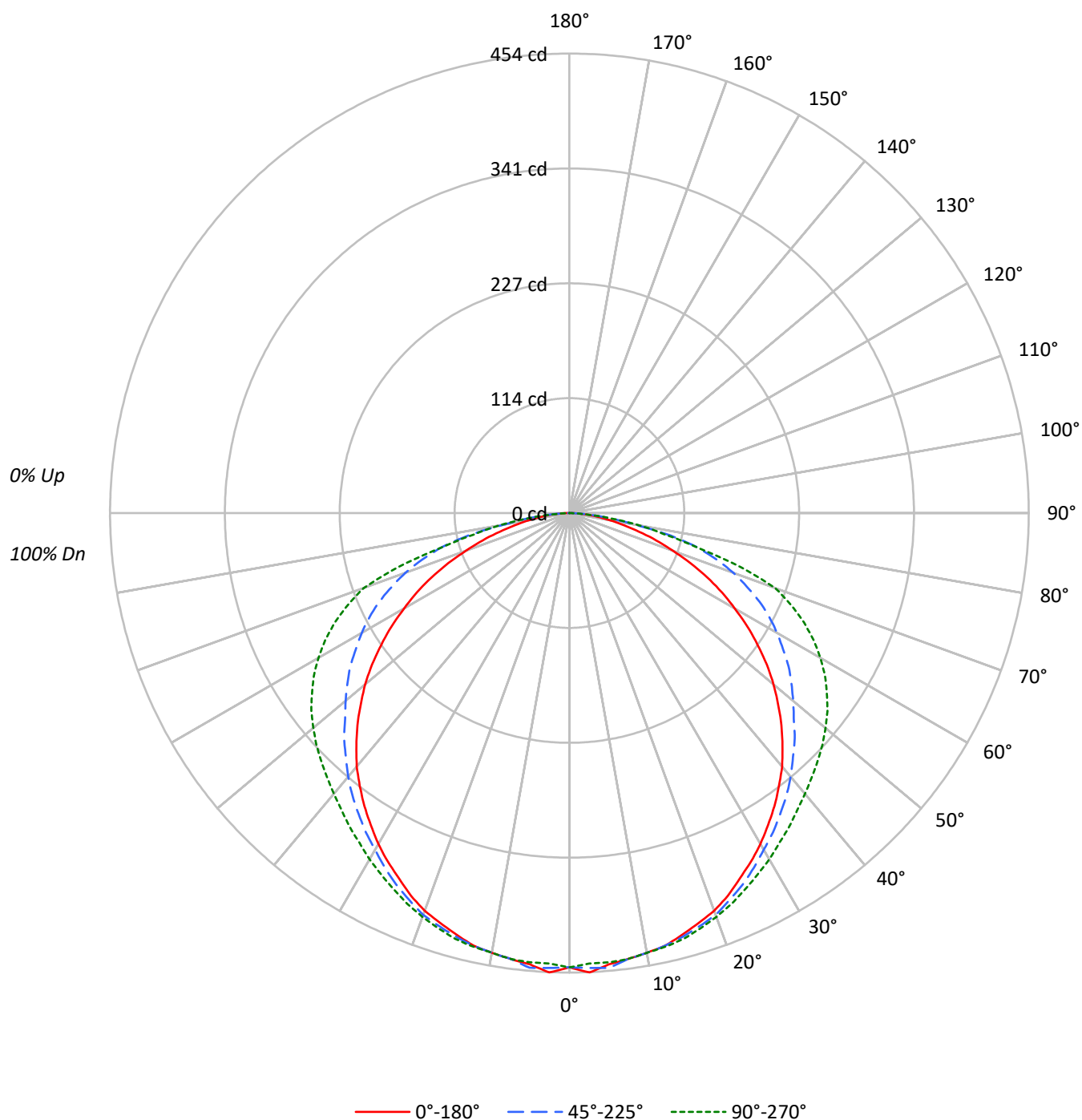
Input Watts (W): 19.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0
RW	70	50	30	10	70	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		100
1	108	103	99	95	105	101	97	93	97	93	90		93	90	87		83
2	98	89	82	76	95	87	81	75	84	78	73		80	76	71		68
3	89	78	69	62	86	76	68	62	73	66	61		70	64	59		56
4	81	68	59	52	79	67	58	52	64	57	51		62	56	50		47
5	74	61	52	45	72	60	51	44	58	50	44		56	49	43		41
6	68	55	45	39	66	54	45	39	52	44	38		50	43	38		35
7	63	49	40	34	62	49	40	34	47	39	34		45	39	33		31
8	59	45	36	30	57	44	36	30	43	35	30		42	35	30		28
9	55	41	33	27	54	41	33	27	39	32	27		38	32	27		25
10	51	38	30	24	50	37	30	24	36	29	24		35	29	24		22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1208	1208	1208
5°	1209	1218	1203
10°	1205	1205	1205
15°	1201	1207	1214
20°	1197	1210	1216
25°	1183	1202	1219
30°	1173	1194	1227
35°	1161	1193	1244
40°	1149	1195	1272
45°	1128	1198	1320
50°	1103	1208	1383
55°	1065	1241	1457
60°	1016	1276	1541
65°	957	1321	1628
70°	854	1356	1701
75°	741	1358	1346
80°	629	1003	1088
85°	543	676	611



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.6	3.0
10°-20°	122.4	8.7
20°-30°	186.5	13.2
30°-40°	228.2	16.1
40°-50°	245.5	17.4
50°-60°	237.8	16.8
60°-70°	201.5	14.3
70°-80°	121.8	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°	351.5	24.9
0°-40°	579.7	41.0
0°-60°	1063.0	75.2
0°-90°	1413.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1413.0	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°	431	432	433	434	436	122
25°	398	400	405	408	410	184
35°	353	356	363	373	379	221
45°	296	302	315	335	347	228
55°	227	237	264	295	310	203
65°	150	167	207	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°	448.8	448.8	448.8	448.8	448.8
2.5°	454.3	453.2	449.9	447.7	445.5
5°	447.7	447.7	451.0	448.8	445.5
7.5°	444.4	444.4	444.4	449.9	444.4
10°	441.1	442.2	441.1	445.5	441.1
12.5°	437.8	437.8	437.8	438.9	438.9
15°	431.2	432.3	433.4	434.5	435.6
17.5°	424.7	425.8	428.0	429.1	430.2
20°	418.1	419.2	422.5	422.5	424.7
22.5°	409.3	409.3	413.7	414.8	418.1
25°	398.3	400.5	404.9	408.2	410.4
27.5°	388.5	390.6	395.0	399.4	402.7
30°	377.5	379.7	384.1	390.6	395.0
32.5°	365.4	367.6	374.2	381.9	386.3
35°	353.3	355.5	363.2	373.1	378.6
37.5°	340.2	343.5	352.2	363.2	369.8
40°	327.0	330.3	340.2	352.2	362.1
42.5°	311.6	316.0	327.0	343.5	354.4
45°	296.3	301.8	314.9	334.7	346.8
47.5°	279.8	285.3	300.7	325.9	339.1
50°	263.4	269.9	288.6	316.0	330.3
52.5°	245.8	252.4	276.5	306.2	321.5
55°	227.1	237.0	264.5	295.2	310.5
57.5°	208.5	219.5	250.2	283.1	299.6
60°	188.7	201.9	237.0	269.9	286.4
62.5°	170.1	184.4	222.8	255.7	272.1
65°	150.3	166.8	207.4	240.3	255.7
67.5°	129.5	150.3	189.8	221.7	237.0
70°	108.6	132.8	172.3	201.9	216.2
72.5°	90.0	115.2	152.5	177.8	177.8
75°	71.3	96.6	130.6	132.8	129.5
77.5°	54.9	79.0	102.1	93.3	95.5
80°	40.6	60.4	64.7	68.0	70.2
82.5°	27.4	40.6	41.7	43.9	43.9
85°	17.6	20.8	21.9	20.8	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)