

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: P230801

Luminaire Tested: **22CZ-LD5-24-SQP-UNV-L935-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230801
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-L935-CD1-U
Description: CRUZE 2x2 LED TROFFER
WITH SQP LENS
Light Source: (84) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1469.0 lumens
Efficiency: N/A
Efficacy: 74.9 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

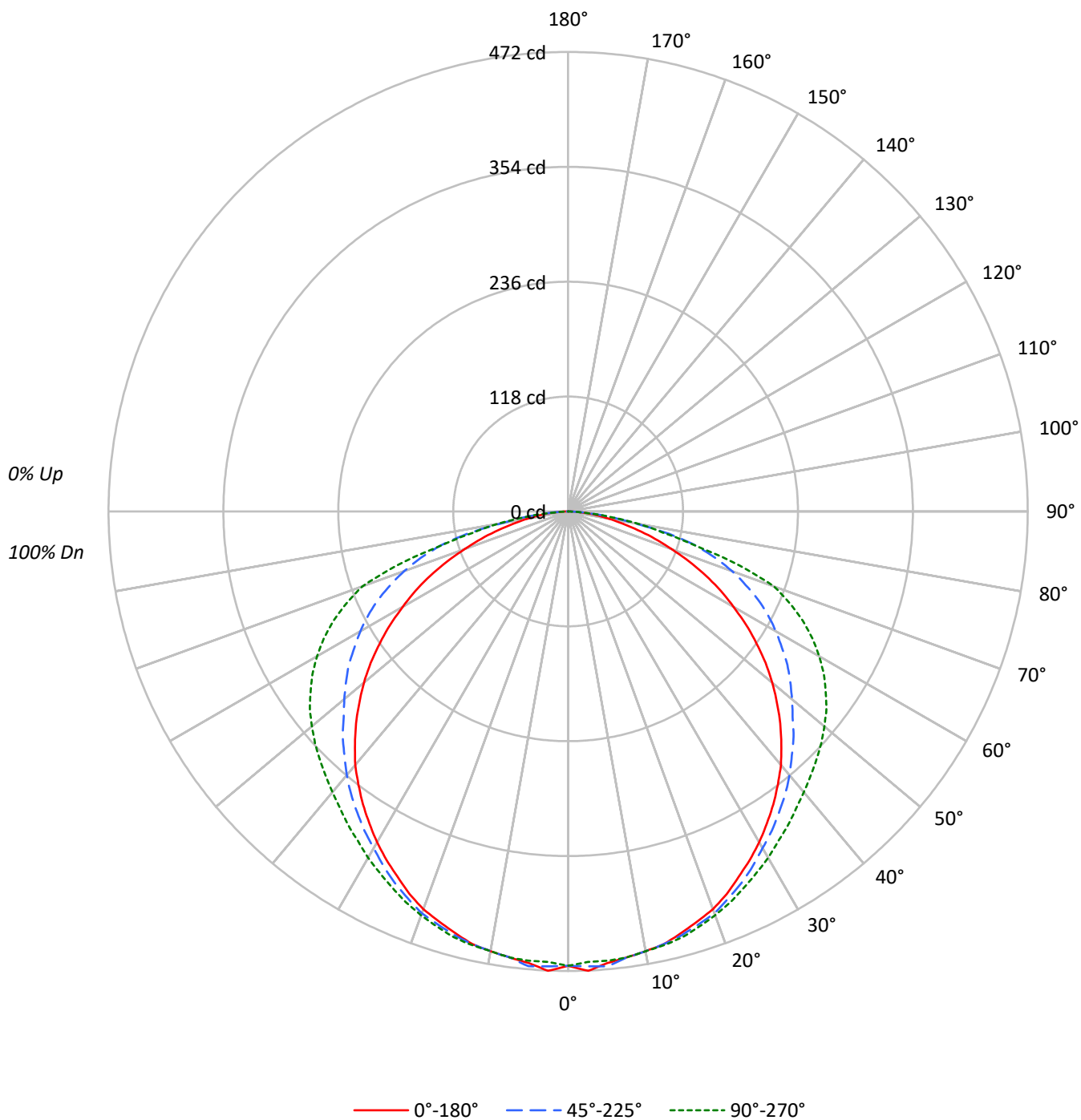
Input Watts (W): 19.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					10
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	108	103	99	95	105	101	97	93		97	93	90		93	90	87		89	87	85
2	98	89	82	76	95	87	81	75		84	78	73		80	76	71		77	73	70
3	89	78	69	62	86	76	68	62		73	66	61		70	64	59		68	63	58
4	81	68	59	52	79	67	58	52		64	57	51		62	56	50		60	54	50
5	74	61	52	45	72	60	51	44		58	50	44		56	49	43		54	48	43
6	68	55	45	39	66	54	45	39		52	44	38		50	43	38		48	42	37
7	63	49	40	34	62	49	40	34		47	39	34		45	39	33		44	38	33
8	59	45	36	30	57	44	36	30		43	35	30		42	35	30		40	34	29
9	55	41	33	27	54	41	33	27		39	32	27		38	32	27		37	31	27
10	51	38	30	24	50	37	30	24		36	29	24		35	29	24		35	28	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1256	1256	1256
5°	1257	1267	1251
10°	1253	1253	1253
15°	1249	1255	1262
20°	1245	1258	1264
25°	1230	1250	1267
30°	1219	1241	1276
35°	1207	1240	1293
40°	1194	1242	1323
45°	1172	1246	1372
50°	1146	1256	1438
55°	1108	1290	1515
60°	1056	1326	1603
65°	995	1373	1692
70°	888	1409	1768
75°	771	1412	1399
80°	654	1043	1131
85°	565	704	633



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.3	3.0
10°-20°	127.2	8.7
20°-30°	193.9	13.2
30°-40°	237.2	16.1
40°-50°	255.2	17.4
50°-60°	247.2	16.8
60°-70°	209.4	14.3
70°-80°	126.6	8.6
80°-90°	27.8	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°	365.4	24.9
0°-40°	602.6	41.0
0°-60°	1105.1	75.2
0°-90°	1469.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1469.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	467	467	467	467	467	
5°	466	466	469	467	463	44
15°	448	450	451	452	453	127
25°	414	416	421	424	427	191
35°	367	370	378	388	394	230
45°	308	314	327	348	360	237
55°	236	246	275	307	323	211
65°	156	173	216	250	266	154
75°	74	100	136	138	135	80
85°	18	22	23	22	20	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	466.6	466.6	466.6	466.6	466.6
2.5°	472.3	471.2	467.7	465.5	463.2
5°	465.5	465.5	468.9	466.6	463.2
7.5°	462.0	462.0	462.0	467.7	462.0
10°	458.6	459.7	458.6	463.2	458.6
12.5°	455.2	455.2	455.2	456.3	456.3
15°	448.3	449.5	450.6	451.8	452.9
17.5°	441.5	442.6	444.9	446.1	447.2
20°	434.7	435.8	439.2	439.2	441.5
22.5°	425.5	425.5	430.1	431.2	434.7
25°	414.1	416.4	421.0	424.4	426.7
27.5°	403.8	406.1	410.7	415.3	418.7
30°	392.4	394.7	399.3	406.1	410.7
32.5°	379.9	382.2	389.0	397.0	401.6
35°	367.3	369.6	377.6	387.9	393.6
37.5°	353.7	357.1	366.2	377.6	384.5
40°	340.0	343.4	353.7	366.2	376.5
42.5°	324.0	328.6	340.0	357.1	368.5
45°	308.0	313.7	327.4	347.9	360.5
47.5°	290.9	296.6	312.6	338.8	352.5
50°	273.8	280.6	300.0	328.6	343.4
52.5°	255.5	262.4	287.5	318.3	334.3
55°	236.1	246.4	274.9	306.9	322.9
57.5°	216.8	228.2	260.1	294.3	311.4
60°	196.2	209.9	246.4	280.6	297.8
62.5°	176.8	191.7	231.6	265.8	282.9
65°	156.3	173.4	215.6	249.8	265.8
67.5°	134.6	156.3	197.4	230.4	246.4
70°	112.9	138.0	179.1	209.9	224.7
72.5°	93.5	119.8	158.6	184.8	184.8
75°	74.2	100.4	135.8	138.0	134.6
77.5°	57.0	82.1	106.1	97.0	99.3
80°	42.2	62.7	67.3	70.7	73.0
82.5°	28.5	42.2	43.4	45.6	45.6
85°	18.3	21.7	22.8	21.7	20.5
87.5°	8.0	9.1	6.8	4.6	3.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)