

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: P260347

Luminaire Tested: **22CZ-LD5-24-SQP-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260347
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-6500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1448.0 lumens
Efficiency: N/A
Efficacy: 78.6 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

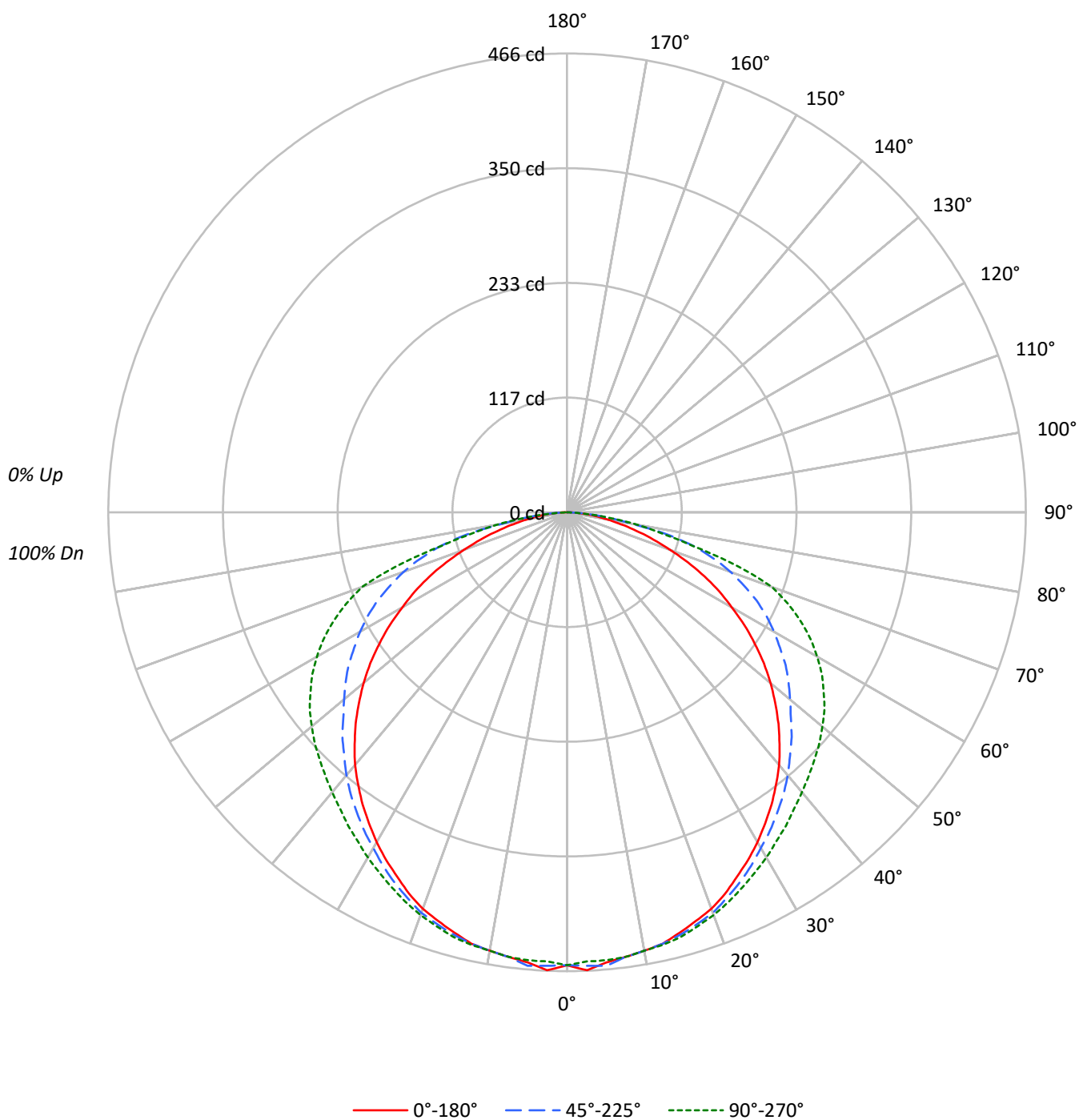
Input Watts (W): 18.414
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1238	1238	1238
5°	1239	1249	1233
10°	1235	1235	1235
15°	1231	1237	1244
20°	1227	1240	1246
25°	1212	1232	1249
30°	1202	1223	1258
35°	1190	1223	1275
40°	1177	1225	1304
45°	1155	1228	1352
50°	1130	1238	1417
55°	1092	1271	1493
60°	1041	1307	1580
65°	981	1353	1668
70°	876	1389	1743
75°	760	1391	1380
80°	645	1027	1116
85°	556	695	624



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.7	3.0
10°-20°	125.4	8.7
20°-30°	191.1	13.2
30°-40°	233.8	16.1
40°-50°	251.6	17.4
50°-60°	243.7	16.8
60°-70°	206.5	14.3
70°-80°	124.8	8.6
80°-90°	27.4	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°	360.2	24.9
0°-40°	594.0	41.0
0°-60°	1089.3	75.2
0°-90°	1448.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1448.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	460	460	460	460	460	
5°	459	459	462	460	457	44
15°	442	443	444	445	446	125
25°	408	410	415	418	421	188
35°	362	364	372	382	388	226
45°	304	309	323	343	355	234
55°	233	243	271	302	318	208
65°	154	171	212	246	262	152
75°	73	99	134	136	133	79
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°	459.9	459.9	459.9	459.9	459.9
2.5°	465.5	464.4	461.0	458.8	456.6
5°	458.8	458.8	462.2	459.9	456.6
7.5°	455.4	455.4	455.4	461.0	455.4
10°	452.1	453.2	452.1	456.6	452.1
12.5°	448.7	448.7	448.7	449.8	449.8
15°	441.9	443.1	444.2	445.3	446.4
17.5°	435.2	436.3	438.6	439.7	440.8
20°	428.4	429.6	432.9	432.9	435.2
22.5°	419.4	419.4	423.9	425.1	428.4
25°	408.2	410.4	414.9	418.3	420.6
27.5°	398.1	400.3	404.8	409.3	412.7
30°	386.8	389.1	393.6	400.3	404.8
32.5°	374.5	376.7	383.5	391.3	395.8
35°	362.1	364.3	372.2	382.3	388.0
37.5°	348.6	352.0	361.0	372.2	379.0
40°	335.1	338.5	348.6	361.0	371.1
42.5°	319.4	323.9	335.1	352.0	363.2
45°	303.6	309.2	322.7	343.0	355.3
47.5°	286.7	292.4	308.1	334.0	347.5
50°	269.9	276.6	295.7	323.9	338.5
52.5°	251.9	258.6	283.4	313.7	329.5
55°	232.8	242.9	271.0	302.5	318.2
57.5°	213.7	224.9	256.4	290.1	307.0
60°	193.4	206.9	242.9	276.6	293.5
62.5°	174.3	188.9	228.3	262.0	278.9
65°	154.1	170.9	212.5	246.3	262.0
67.5°	132.7	154.1	194.5	227.2	242.9
70°	111.3	136.1	176.5	206.9	221.5
72.5°	92.2	118.1	156.3	182.2	182.2
75°	73.1	99.0	133.8	136.1	132.7
77.5°	56.2	81.0	104.6	95.6	97.8
80°	41.6	61.8	66.3	69.7	72.0
82.5°	28.1	41.6	42.7	45.0	45.0
85°	18.0	21.4	22.5	21.4	20.2
87.5°	7.9	9.0	6.7	4.5	3.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)