

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: P260257

Luminaire Tested: **22CZ-LD5-29-SQP-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260257
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-LD5-29-SQP-UNV-L93050-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: 1516.0 lumens
Efficiency: N/A
Efficacy: 71.4 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

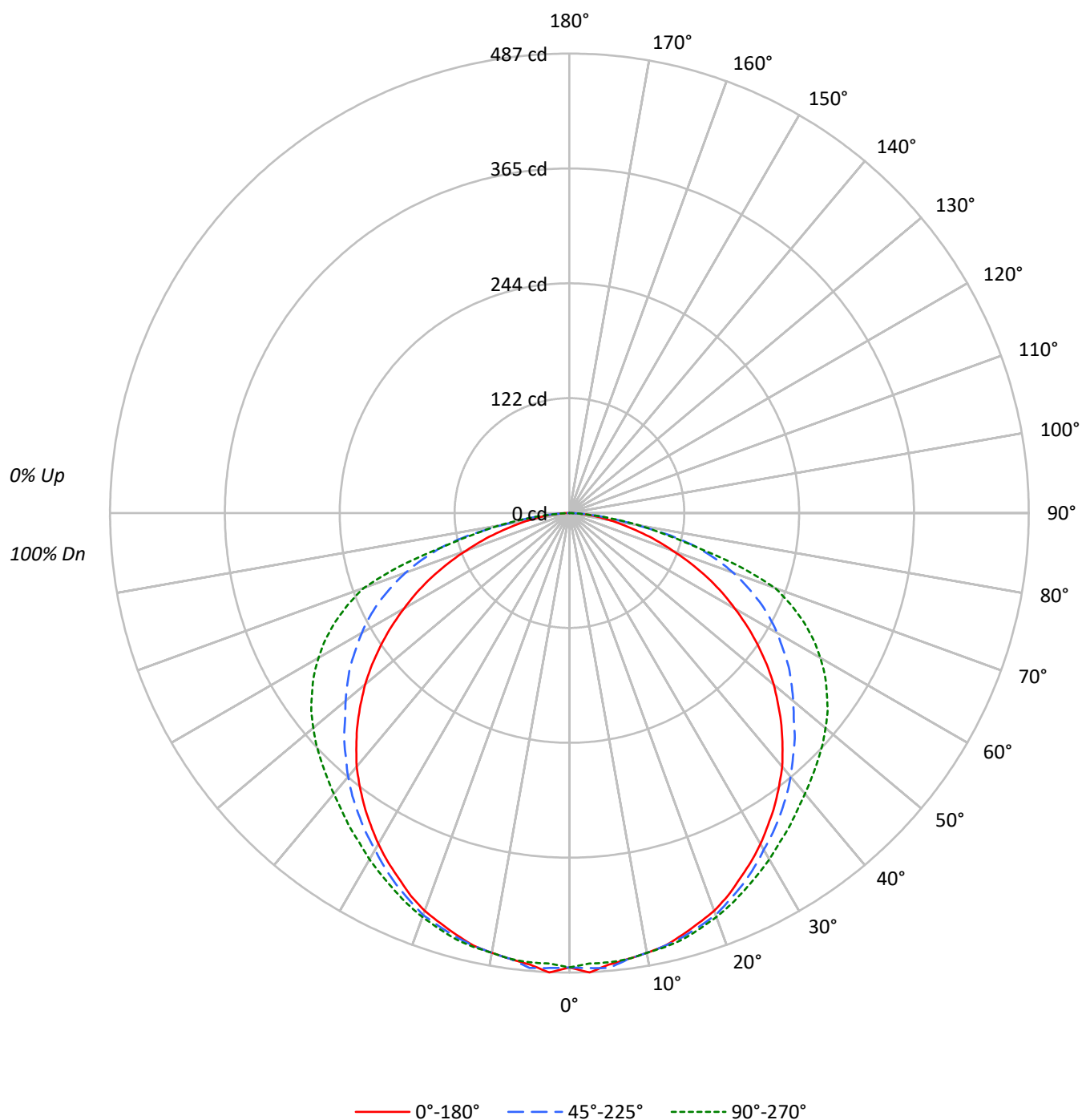
Input Watts (W): 21.227808
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P260257

CATALOG NUMBER: 22CZ-LD5-29-SQP-UNV-L93050-W2A1-U-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P260257

CATALOG NUMBER: 22CZ-LD5-29-SQP-UNV-L93050-W2A1-U-3500K

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°	1296	1296	1296
5°	1297	1307	1291
10°	1293	1293	1293
15°	1289	1295	1302
20°	1285	1298	1305
25°	1269	1290	1307
30°	1258	1281	1317
35°	1245	1280	1334
40°	1232	1282	1365
45°	1210	1286	1416
50°	1183	1296	1484
55°	1143	1331	1563
60°	1090	1369	1654
65°	1027	1417	1747
70°	917	1454	1825
75°	795	1457	1444
80°	676	1077	1167
85°	580	726	655



TEST NUMBER: P260257

CATALOG NUMBER: 22CZ-LD5-29-SQP-UNV-L93050-W2A1-U-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.7	3.0
10°-20°	131.3	8.7
20°-30°	200.1	13.2
30°-40°	244.8	16.1
40°-50°	263.4	17.4
50°-60°	255.2	16.8
60°-70°	216.1	14.3
70°-80°	130.7	8.6
80°-90°	28.7	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°	377.1	24.9
0°-40°	621.9	41.0
0°-60°	1140.5	75.2
0°-90°	1516.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1516.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	482	482	482	482	482	
5°	480	480	484	482	478	46
15°	463	464	465	466	467	131
25°	427	430	434	438	440	197
35°	379	382	390	400	406	237
45°	318	324	338	359	372	245
55°	244	254	284	317	333	218
65°	161	179	222	258	274	159
75°	76	104	140	142	139	82
85°	19	22	24	22	21	21
90°	0	0	0	0	0	



TEST NUMBER: P260257

CATALOG NUMBER: 22CZ-LD5-29-SQP-UNV-L93050-W2A1-U-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	481.5	481.5	481.5	481.5	481.5
2.5°	487.4	486.2	482.7	480.3	478.0
5°	480.3	480.3	483.9	481.5	478.0
7.5°	476.8	476.8	476.8	482.7	476.8
10°	473.3	474.5	473.3	478.0	473.3
12.5°	469.7	469.7	469.7	470.9	470.9
15°	462.7	463.9	465.0	466.2	467.4
17.5°	455.6	456.8	459.2	460.3	461.5
20°	448.6	449.7	453.3	453.3	455.6
22.5°	439.1	439.1	443.8	445.0	448.6
25°	427.4	429.7	434.4	438.0	440.3
27.5°	416.8	419.1	423.8	428.5	432.1
30°	405.0	407.4	412.1	419.1	423.8
32.5°	392.0	394.4	401.5	409.7	414.4
35°	379.1	381.5	389.7	400.3	406.2
37.5°	365.0	368.5	377.9	389.7	396.8
40°	350.8	354.4	365.0	377.9	388.5
42.5°	334.4	339.1	350.8	368.5	380.3
45°	317.9	323.8	337.9	359.1	372.0
47.5°	300.2	306.1	322.6	349.7	363.8
50°	282.6	289.6	309.6	339.1	354.4
52.5°	263.7	270.8	296.7	328.5	345.0
55°	243.7	254.3	283.7	316.7	333.2
57.5°	223.7	235.5	268.4	303.7	321.4
60°	202.5	216.6	254.3	289.6	307.3
62.5°	182.5	197.8	239.0	274.3	292.0
65°	161.3	179.0	222.5	257.8	274.3
67.5°	138.9	161.3	203.7	237.8	254.3
70°	116.6	142.5	184.8	216.6	231.9
72.5°	96.5	123.6	163.6	190.7	190.7
75°	76.5	103.6	140.1	142.5	138.9
77.5°	58.9	84.8	109.5	100.1	102.4
80°	43.6	64.8	69.5	73.0	75.3
82.5°	29.4	43.6	44.7	47.1	47.1
85°	18.8	22.4	23.5	22.4	21.2
87.5°	8.2	9.4	7.1	4.7	3.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)