

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: P259475

Luminaire Tested: **22CZ-LD5-39-S-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259475
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25712)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-39-S-UNV-L82765-W2A1-U-4000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4010.0 lumens
Efficiency: N/A
Efficacy: 131.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

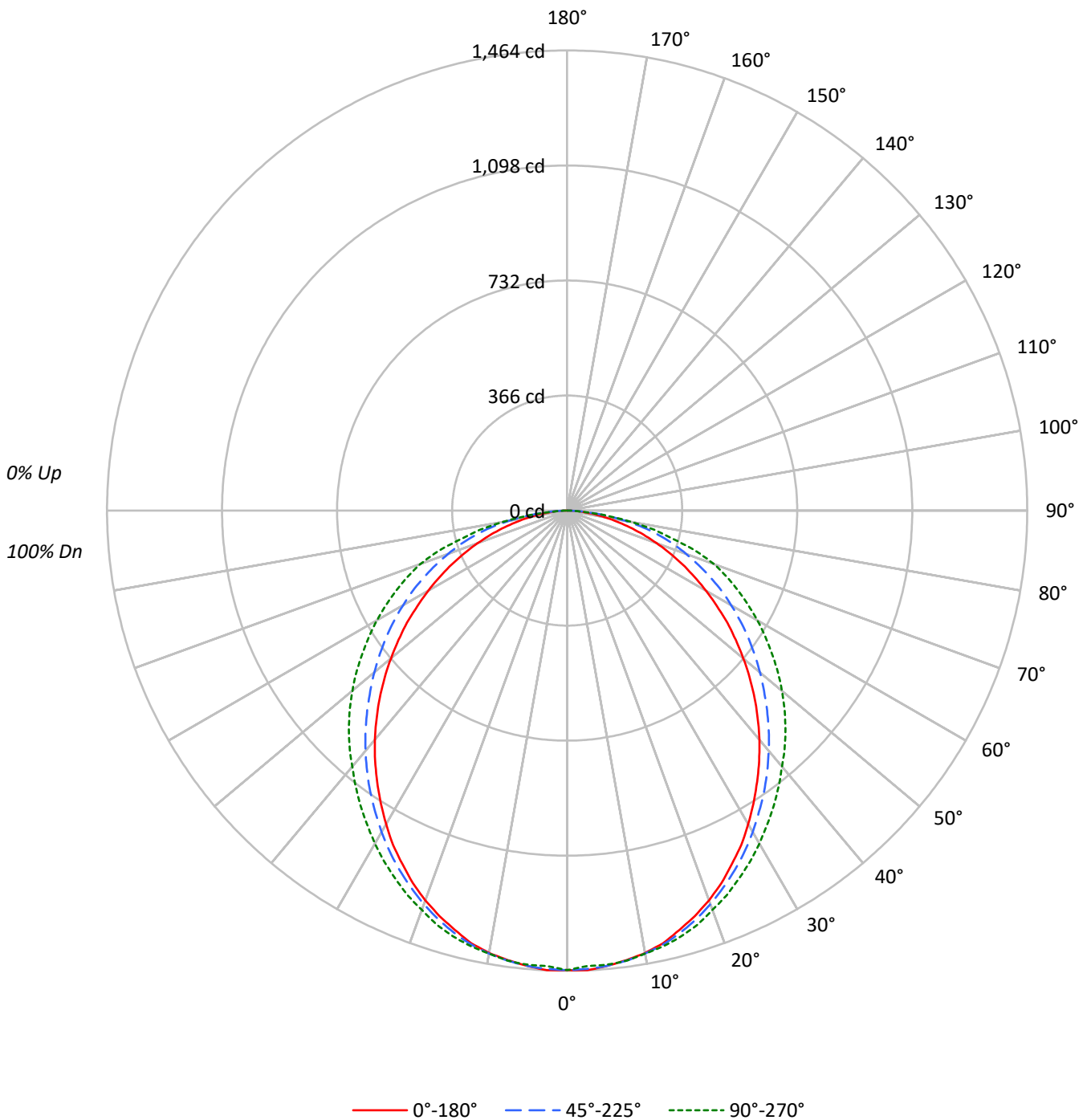
Input Watts (W): 30.504
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P259475

CATALOG NUMBER: 22CZ-LD5-39-S-UNV-L82765-W2A1-U-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P259475

CATALOG NUMBER: 22CZ-LD5-39-S-UNV-L82765-W2A1-U-4000K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	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	102	102	102	100
1	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83
2	99	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	62	69	64	60	58
4	82	70	61	54	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43
6	70	56	47	41	68	56	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	26	52	39	32	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3934	3934	3934
5°	3928	3928	3918
10°	3905	3910	3910
15°	3847	3874	3906
20°	3778	3817	3872
25°	3683	3746	3837
30°	3579	3669	3801
35°	3461	3588	3765
40°	3342	3505	3735
45°	3210	3423	3738
50°	3064	3354	3733
55°	2919	3298	3732
60°	2747	3245	3763
65°	2576	3201	3814
70°	2379	3167	3910
75°	2143	3144	3624
80°	1880	2926	3164
85°	1547	2201	1964



TEST NUMBER: P259475

CATALOG NUMBER: 22CZ-LD5-39-S-UNV-L82765-W2A1-U-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.0	3.4
10°-20°	392.2	9.8
20°-30°	582.5	14.5
30°-40°	685.6	17.1
40°-50°	699.0	17.4
50°-60°	630.4	15.7
60°-70°	496.6	12.4
70°-80°	306.3	7.6
80°-90°	79.5	2.0
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°	1112.7	27.7
0°-40°	1798.3	44.8
0°-60°	3127.7	78.0
0°-90°	4010.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4010.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1462	1462	1462	1462	1462	
5°	1454	1456	1454	1452	1450	138
15°	1381	1387	1391	1398	1402	389
25°	1240	1248	1262	1283	1292	572
35°	1054	1065	1092	1127	1146	659
45°	844	857	900	953	982	650
55°	622	643	703	767	796	555
65°	404	433	503	566	599	401
75°	206	241	302	337	349	220
85°	50	64	71	67	64	59
90°	0	0	0	0	0	



TEST NUMBER: P259475

CATALOG NUMBER: 22CZ-LD5-39-S-UNV-L82765-W2A1-U-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1461.9	1461.9	1461.9	1461.9	1461.9
2.5°	1463.8	1463.8	1460.0	1456.1	1450.3
5°	1454.2	1456.1	1454.2	1452.3	1450.3
7.5°	1442.6	1444.5	1444.5	1444.5	1444.5
10°	1429.1	1431.1	1431.1	1431.1	1431.1
12.5°	1409.9	1411.8	1413.7	1415.7	1419.5
15°	1381.0	1386.8	1390.6	1398.3	1402.2
17.5°	1352.1	1357.9	1363.7	1373.3	1381.0
20°	1319.4	1323.2	1332.8	1344.4	1352.1
22.5°	1282.8	1288.5	1298.2	1313.6	1325.1
25°	1240.4	1248.1	1261.6	1282.8	1292.4
27.5°	1199.9	1205.7	1223.1	1246.2	1259.6
30°	1151.8	1159.5	1180.7	1209.6	1223.1
32.5°	1103.6	1113.3	1136.4	1169.1	1184.5
35°	1053.6	1065.1	1092.1	1126.7	1146.0
37.5°	1003.5	1015.0	1045.9	1084.4	1105.6
40°	951.5	963.0	997.7	1040.1	1063.2
42.5°	897.5	911.0	949.5	997.7	1024.7
45°	843.6	857.1	899.5	953.4	982.3
47.5°	787.8	803.2	849.4	909.1	938.0
50°	731.9	749.2	801.2	862.9	891.8
52.5°	676.0	695.3	751.2	814.7	845.5
55°	622.1	643.3	703.0	766.6	795.5
57.5°	564.3	589.4	652.9	714.6	747.3
60°	510.4	537.4	602.9	664.5	699.2
62.5°	456.5	485.4	554.7	616.3	649.1
65°	404.5	433.4	502.7	566.3	599.0
67.5°	352.5	385.2	452.6	516.2	548.9
70°	302.4	337.1	402.5	464.2	496.9
72.5°	254.2	288.9	354.4	412.2	431.4
75°	206.1	240.8	302.4	337.1	348.6
77.5°	161.8	194.5	248.5	269.6	285.1
80°	121.3	150.2	188.8	202.2	204.2
82.5°	82.8	107.9	131.0	132.9	131.0
85°	50.1	63.6	71.3	67.4	63.6
87.5°	23.1	25.0	23.1	15.4	9.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)