

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: P259305

Luminaire Tested: **22CZ-LD5-39-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259305
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25706)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-39-UNV-L82765-W2A1-U-3000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3718.0 lumens
Efficiency: N/A
Efficacy: 124.2 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.26 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

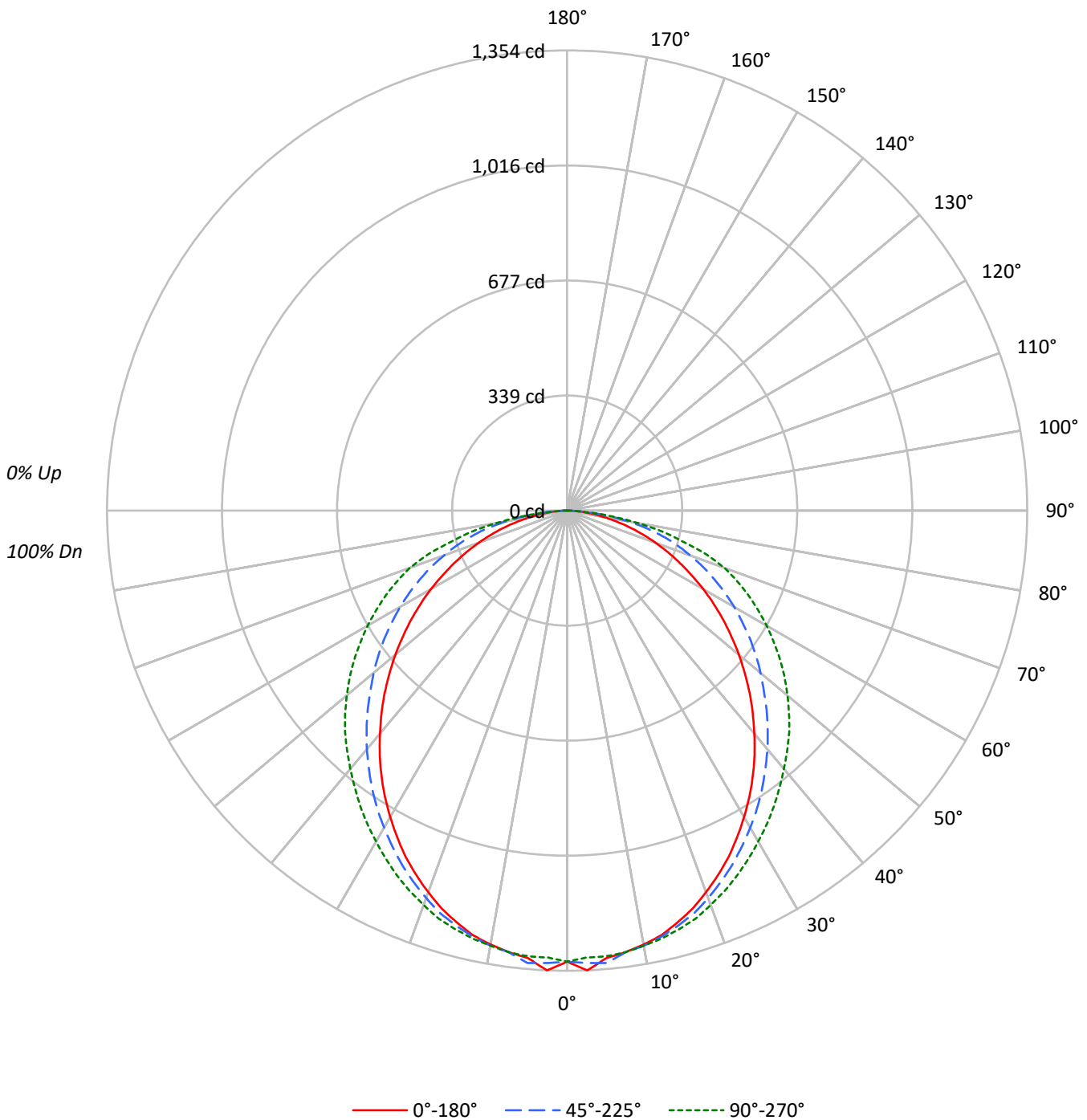
Input Watts (W): 29.946
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P259305

CATALOG NUMBER: 22CZ-LD5-39-UNV-L82765-W2A1-U-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P259305

CATALOG NUMBER: 22CZ-LD5-39-UNV-L82765-W2A1-U-3000K

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	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					100			
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69					69			
3	90	79	70	64	87	77	69	63	74	68	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43					43			
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37					37			
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33					33			
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29					29			
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26					26			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3571	3571	3571
5°	3570	3609	3555
10°	3542	3552	3552
15°	3496	3521	3551
20°	3422	3474	3536
25°	3339	3414	3516
30°	3236	3348	3494
35°	3130	3284	3486
40°	3010	3220	3487
45°	2890	3158	3516
50°	2763	3111	3542
55°	2630	3079	3588
60°	2491	3055	3649
65°	2337	3039	3741
70°	2176	3030	3869
75°	1973	3027	3666
80°	1709	2802	3250
85°	1451	2121	2066



TEST NUMBER: P259305

CATALOG NUMBER: 22CZ-LD5-39-UNV-L82765-W2A1-U-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.9	3.4
10°-20°	356.5	9.6
20°-30°	530.4	14.3
30°-40°	627.3	16.9
40°-50°	644.7	17.3
50°-60°	589.1	15.8
60°-70°	471.3	12.7
70°-80°	295.8	8.0
80°-90°	77.0	2.1
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°	1012.8	27.2
0°-40°	1640.0	44.1
0°-60°	2873.9	77.3
0°-90°	3718.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3718.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1327	1327	1327	1327	1327	
5°	1322	1322	1336	1327	1316	126
15°	1255	1257	1264	1271	1275	353
25°	1125	1132	1150	1170	1184	517
35°	953	966	1000	1038	1061	595
45°	759	779	830	891	924	585
55°	560	588	656	729	765	501
65°	367	400	477	550	588	364
75°	190	226	291	334	353	202
85°	47	60	69	67	67	54
90°	0	0	0	0	0	



TEST NUMBER: P259305

CATALOG NUMBER: 22CZ-LD5-39-UNV-L82765-W2A1-U-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1327.1	1327.1	1327.1	1327.1	1327.1
2.5°	1354.2	1348.8	1332.5	1321.7	1316.2
5°	1321.7	1321.7	1336.1	1327.1	1316.2
7.5°	1310.8	1310.8	1310.8	1337.9	1310.8
10°	1296.3	1298.2	1300.0	1310.8	1300.0
12.5°	1280.1	1280.1	1283.7	1287.3	1289.1
15°	1254.8	1256.6	1263.8	1271.0	1274.6
17.5°	1227.6	1233.1	1242.1	1251.1	1258.4
20°	1195.1	1202.3	1213.2	1227.6	1234.9
22.5°	1160.7	1168.0	1182.4	1198.7	1211.4
25°	1124.6	1131.8	1149.9	1169.8	1184.2
27.5°	1083.0	1092.0	1113.7	1140.9	1155.3
30°	1041.4	1052.3	1077.6	1108.3	1124.6
32.5°	998.0	1010.7	1039.6	1074.0	1093.8
35°	952.8	965.5	999.8	1037.8	1061.3
37.5°	905.8	920.3	958.2	1001.6	1026.9
40°	857.0	873.3	916.7	963.7	992.6
42.5°	808.2	826.3	873.3	929.3	958.2
45°	759.4	779.3	829.9	891.3	923.9
47.5°	708.7	732.2	784.7	853.4	885.9
50°	659.9	683.4	743.1	813.6	846.1
52.5°	609.3	636.4	699.7	772.0	806.4
55°	560.5	587.6	656.3	728.6	764.8
57.5°	511.7	538.8	611.1	685.2	721.4
60°	462.9	491.8	567.7	640.0	678.0
62.5°	414.0	444.8	522.5	596.6	632.8
65°	367.0	399.6	477.3	549.6	587.6
67.5°	321.8	356.2	432.1	502.6	540.6
70°	276.6	311.0	385.1	453.8	491.8
72.5°	233.2	267.6	339.9	401.4	430.3
75°	189.8	226.0	291.1	334.5	352.6
77.5°	148.3	184.4	240.5	269.4	289.3
80°	110.3	141.0	180.8	202.5	209.7
82.5°	75.9	101.2	126.6	132.0	135.6
85°	47.0	59.7	68.7	66.9	66.9
87.5°	21.7	23.5	19.9	14.5	9.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)