

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: P259310

Luminaire Tested: **22CZ-LD5-39-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259310
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-5500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4095.0 lumens
Efficiency: N/A
Efficacy: 132.2 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

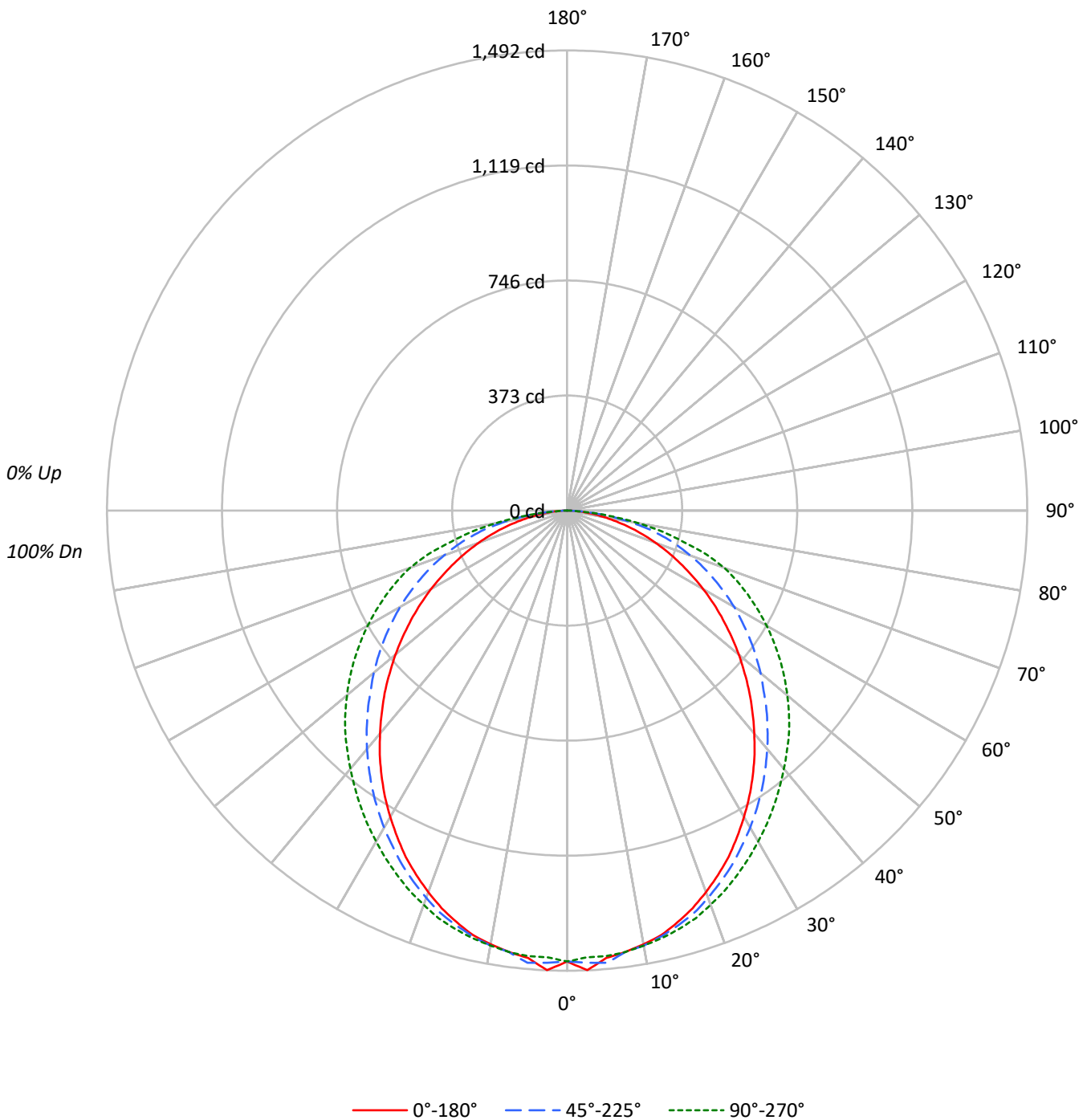
Input Watts (W): 30.969
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					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°	3933	3933	3933
5°	3932	3975	3916
10°	3901	3912	3912
15°	3850	3878	3911
20°	3769	3826	3895
25°	3678	3760	3873
30°	3564	3688	3849
35°	3447	3618	3840
40°	3316	3547	3840
45°	3183	3478	3873
50°	3043	3426	3901
55°	2896	3392	3952
60°	2744	3365	4019
65°	2574	3347	4121
70°	2397	3338	4261
75°	2174	3333	4037
80°	1883	3085	3580
85°	1599	2337	2276



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.6	3.4
10°-20°	392.7	9.6
20°-30°	584.2	14.3
30°-40°	690.9	16.9
40°-50°	710.1	17.3
50°-60°	648.9	15.8
60°-70°	519.1	12.7
70°-80°	325.8	8.0
80°-90°	84.8	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°	1115.5	27.2
0°-40°	1806.3	44.1
0°-60°	3165.3	77.3
0°-90°	4095.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4095.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1462	1462	1462	1462	1462	
5°	1456	1456	1472	1462	1450	138
15°	1382	1384	1392	1400	1404	389
25°	1239	1247	1266	1288	1304	570
35°	1049	1063	1101	1143	1169	656
45°	836	858	914	982	1018	645
55°	617	647	723	802	842	552
65°	404	440	526	605	647	401
75°	209	249	321	368	388	222
85°	52	66	76	74	74	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1461.6	1461.6	1461.6	1461.6	1461.6
2.5°	1491.5	1485.5	1467.6	1455.7	1449.7
5°	1455.7	1455.7	1471.6	1461.6	1449.7
7.5°	1443.7	1443.7	1443.7	1473.6	1443.7
10°	1427.8	1429.8	1431.8	1443.7	1431.8
12.5°	1409.9	1409.9	1413.9	1417.8	1419.8
15°	1382.0	1384.0	1391.9	1399.9	1403.9
17.5°	1352.1	1358.1	1368.1	1378.0	1386.0
20°	1316.3	1324.2	1336.2	1352.1	1360.1
22.5°	1278.4	1286.4	1302.3	1320.3	1334.2
25°	1238.6	1246.6	1266.5	1288.4	1304.3
27.5°	1192.8	1202.8	1226.7	1256.5	1272.5
30°	1147.0	1159.0	1186.8	1220.7	1238.6
32.5°	1099.2	1113.2	1145.0	1182.9	1204.8
35°	1049.4	1063.4	1101.2	1143.0	1168.9
37.5°	997.7	1013.6	1055.4	1103.2	1131.1
40°	943.9	961.8	1009.6	1061.4	1093.2
42.5°	890.1	910.0	961.8	1023.5	1055.4
45°	836.4	858.3	914.0	981.7	1017.6
47.5°	780.6	806.5	864.2	939.9	975.8
50°	726.8	752.7	818.4	896.1	931.9
52.5°	671.1	701.0	770.6	850.3	888.1
55°	617.3	647.2	722.9	802.5	842.3
57.5°	563.5	593.4	673.1	754.7	794.5
60°	509.8	541.6	625.3	704.9	746.8
62.5°	456.0	489.9	575.5	657.1	697.0
65°	404.2	440.1	525.7	605.4	647.2
67.5°	354.5	392.3	475.9	553.6	595.4
70°	304.7	342.5	424.2	499.8	541.6
72.5°	256.9	294.7	374.4	442.1	473.9
75°	209.1	248.9	320.6	368.4	388.3
77.5°	163.3	203.1	264.8	296.7	318.6
80°	121.5	155.3	199.1	223.0	231.0
82.5°	83.6	111.5	139.4	145.4	149.4
85°	51.8	65.7	75.7	73.7	73.7
87.5°	23.9	25.9	21.9	15.9	10.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)