

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: P259531

Luminaire Tested: **22CZ-LD5-39-S-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259531
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-L92765-W2A1-U-5000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3713.0 lumens
Efficiency: N/A
Efficacy: 120.3 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

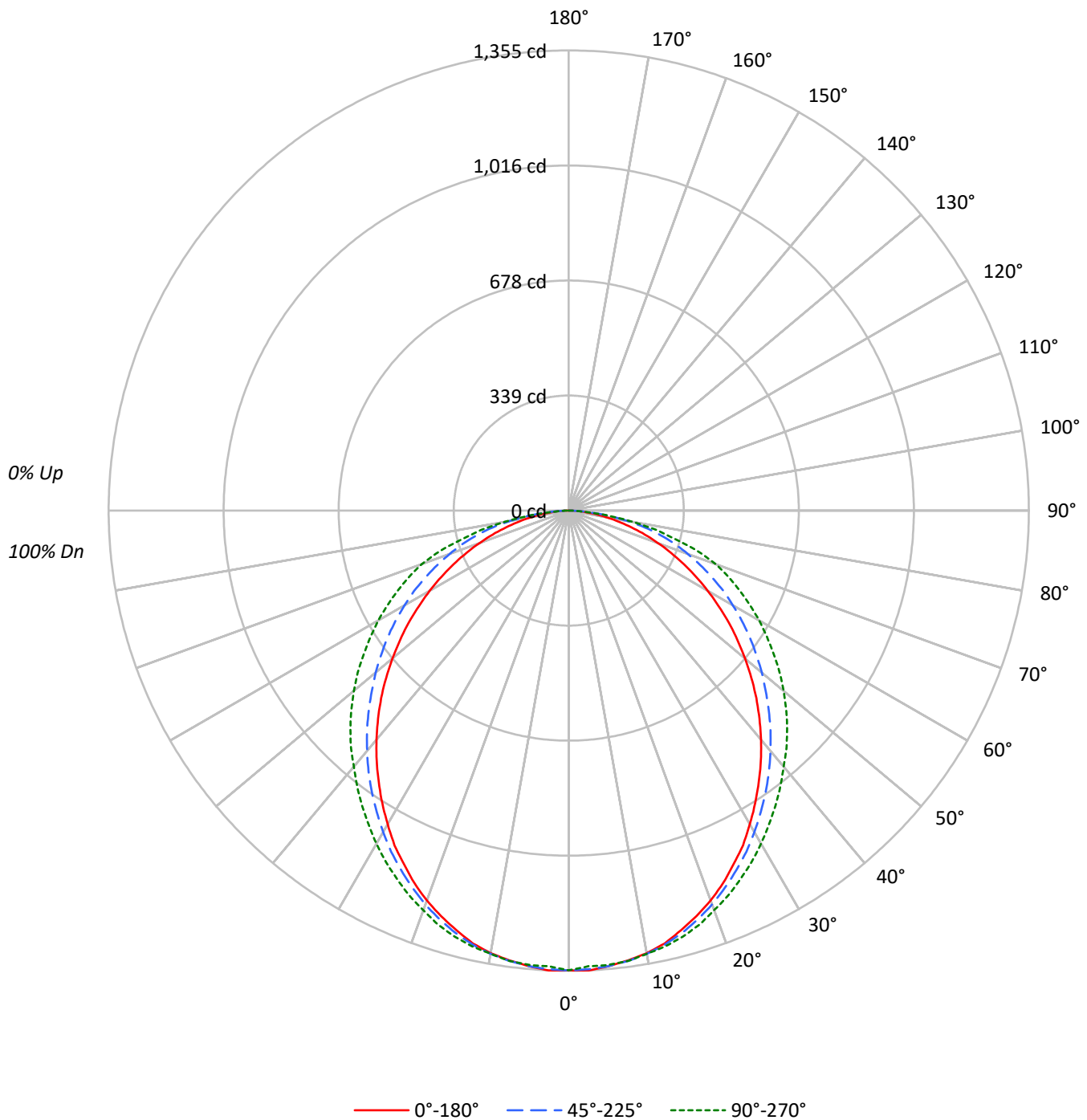
Input Watts (W): 30.876
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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°	3643	3643	3643
5°	3637	3637	3628
10°	3616	3621	3621
15°	3562	3587	3617
20°	3498	3534	3585
25°	3410	3468	3553
30°	3314	3397	3519
35°	3205	3322	3486
40°	3095	3245	3458
45°	2973	3170	3461
50°	2837	3106	3457
55°	2702	3054	3455
60°	2544	3004	3484
65°	2385	2964	3531
70°	2203	2932	3620
75°	1984	2911	3356
80°	1742	2709	2929
85°	1433	2038	1819



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.8	3.4
10°-20°	363.1	9.8
20°-30°	539.3	14.5
30°-40°	634.8	17.1
40°-50°	647.2	17.4
50°-60°	583.7	15.7
60°-70°	459.8	12.4
70°-80°	283.6	7.6
80°-90°	73.6	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°	1030.3	27.7
0°-40°	1665.1	44.8
0°-60°	2896.0	78.0
0°-90°	3713.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3713.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1354	1354	1354	1354	1354	
5°	1346	1348	1346	1345	1343	128
15°	1279	1284	1288	1295	1298	361
25°	1148	1156	1168	1188	1197	529
35°	976	986	1011	1043	1061	610
45°	781	794	833	883	910	602
55°	576	596	651	710	736	514
65°	374	401	466	524	555	371
75°	191	223	280	312	323	204
85°	46	59	66	62	59	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1353.6	1353.6	1353.6	1353.6	1353.6
2.5°	1355.4	1355.4	1351.8	1348.3	1342.9
5°	1346.5	1348.3	1346.5	1344.7	1342.9
7.5°	1335.8	1337.6	1337.6	1337.6	1337.6
10°	1323.3	1325.1	1325.1	1325.1	1325.1
12.5°	1305.5	1307.2	1309.0	1310.8	1314.4
15°	1278.7	1284.1	1287.6	1294.8	1298.3
17.5°	1252.0	1257.3	1262.7	1271.6	1278.7
20°	1221.6	1225.2	1234.1	1244.8	1252.0
22.5°	1187.8	1193.1	1202.0	1216.3	1227.0
25°	1148.5	1155.6	1168.1	1187.8	1196.7
27.5°	1111.1	1116.4	1132.5	1153.9	1166.4
30°	1066.5	1073.6	1093.2	1120.0	1132.5
32.5°	1021.9	1030.8	1052.2	1082.5	1096.8
35°	975.5	986.2	1011.2	1043.3	1061.1
37.5°	929.2	939.9	968.4	1004.1	1023.7
40°	881.0	891.7	923.8	963.0	984.4
42.5°	831.1	843.6	879.2	923.8	948.8
45°	781.1	793.6	832.9	882.8	909.5
47.5°	729.4	743.7	786.5	841.8	868.5
50°	677.7	693.7	741.9	799.0	825.7
52.5°	626.0	643.8	695.5	754.4	782.9
55°	576.0	595.7	650.9	709.8	736.5
57.5°	522.5	545.7	604.6	661.6	692.0
60°	472.6	497.6	558.2	615.3	647.4
62.5°	422.7	449.4	513.6	570.7	601.0
65°	374.5	401.3	465.5	524.3	554.6
67.5°	326.4	356.7	419.1	478.0	508.3
70°	280.0	312.1	372.7	429.8	460.1
72.5°	235.4	267.5	328.1	381.6	399.5
75°	190.8	222.9	280.0	312.1	322.8
77.5°	149.8	180.1	230.1	249.7	263.9
80°	112.4	139.1	174.8	187.3	189.0
82.5°	76.7	99.9	121.3	123.1	121.3
85°	46.4	58.9	66.0	62.4	58.9
87.5°	21.4	23.2	21.4	14.3	8.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)