

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: P230571

Luminaire Tested: **22CZ-LD5-39SE-UNV-L950-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230571
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-LD5-39SE-UNV-L950-CD1-U
Description: CRUZE 2x2 LED TROFFER
WITH RIBBED LENS
Light Source: (56) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3801.0 lumens
Efficiency: N/A
Efficacy: 108.9 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

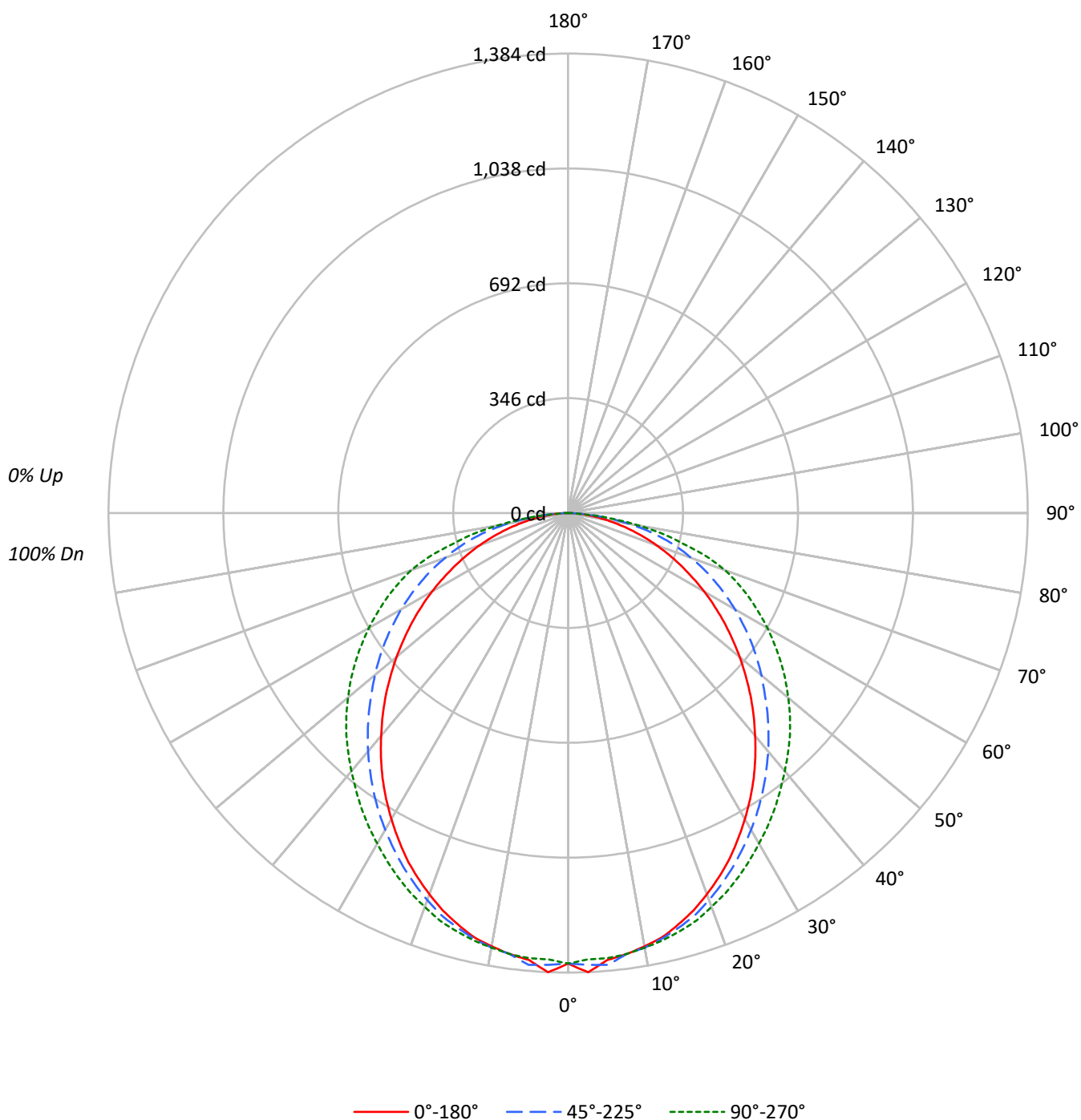
Input Watts (W): 34.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3651	3651	3651
5°	3650	3690	3635
10°	3621	3631	3631
15°	3574	3599	3630
20°	3499	3552	3615
25°	3414	3491	3595
30°	3308	3423	3572
35°	3200	3358	3564
40°	3078	3292	3565
45°	2954	3229	3594
50°	2825	3180	3621
55°	2688	3148	3668
60°	2547	3124	3730
65°	2389	3107	3825
70°	2225	3098	3956
75°	2018	3094	3747
80°	1748	2864	3322
85°	1485	2167	2112



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.7	3.4
10°-20°	364.5	9.6
20°-30°	542.2	14.3
30°-40°	641.3	16.9
40°-50°	659.1	17.3
50°-60°	602.3	15.8
60°-70°	481.8	12.7
70°-80°	302.4	8.0
80°-90°	78.7	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°	1035.4	27.2
0°-40°	1676.7	44.1
0°-60°	2938.1	77.3
0°-90°	3801.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3801.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1357	1357	1357	1357	1357	
5°	1351	1351	1366	1357	1346	128
15°	1283	1285	1292	1299	1303	361
25°	1150	1157	1176	1196	1211	529
35°	974	987	1022	1061	1085	609
45°	776	797	848	911	944	599
55°	573	601	671	745	782	513
65°	375	408	488	562	601	372
75°	194	231	298	342	360	206
85°	48	61	70	68	68	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1356.7	1356.7	1356.7	1356.7	1356.7
2.5°	1384.4	1378.9	1362.3	1351.2	1345.6
5°	1351.2	1351.2	1365.9	1356.7	1345.6
7.5°	1340.1	1340.1	1340.1	1367.8	1340.1
10°	1325.3	1327.1	1329.0	1340.1	1329.0
12.5°	1308.6	1308.6	1312.3	1316.0	1317.9
15°	1282.8	1284.6	1292.0	1299.4	1303.1
17.5°	1255.0	1260.6	1269.8	1279.1	1286.5
20°	1221.8	1229.2	1240.3	1255.0	1262.4
22.5°	1186.7	1194.0	1208.8	1225.5	1238.4
25°	1149.7	1157.1	1175.6	1195.9	1210.7
27.5°	1107.2	1116.4	1138.6	1166.3	1181.1
30°	1064.7	1075.8	1101.6	1133.1	1149.7
32.5°	1020.3	1033.2	1062.8	1097.9	1118.3
35°	974.1	987.0	1022.1	1061.0	1085.0
37.5°	926.0	940.8	979.6	1024.0	1049.9
40°	876.1	892.8	937.1	985.2	1014.8
42.5°	826.2	844.7	892.8	950.1	979.6
45°	776.3	796.6	848.4	911.2	944.5
47.5°	724.6	748.6	802.2	872.4	905.7
50°	674.7	698.7	759.7	831.8	865.0
52.5°	622.9	650.6	715.3	789.3	824.4
55°	573.0	600.7	671.0	744.9	781.9
57.5°	523.1	550.8	624.7	700.5	737.5
60°	473.2	502.8	580.4	654.3	693.1
62.5°	423.3	454.7	534.2	610.0	646.9
65°	375.2	408.5	488.0	561.9	600.7
67.5°	329.0	364.1	441.8	513.8	552.7
70°	282.8	317.9	393.7	463.9	502.8
72.5°	238.4	273.6	347.5	410.3	439.9
75°	194.1	231.0	297.6	341.9	360.4
77.5°	151.6	188.5	245.8	275.4	295.7
80°	112.8	144.2	184.8	207.0	214.4
82.5°	77.6	103.5	129.4	134.9	138.6
85°	48.1	61.0	70.2	68.4	68.4
87.5°	22.2	24.0	20.3	14.8	9.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)