

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: P230575

Luminaire Tested: **22CZ-LD5-44SE-UNV-L950-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230575
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-LD5-44SE-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: 4200.0 lumens
Efficiency: N/A
Efficacy: 105.0 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

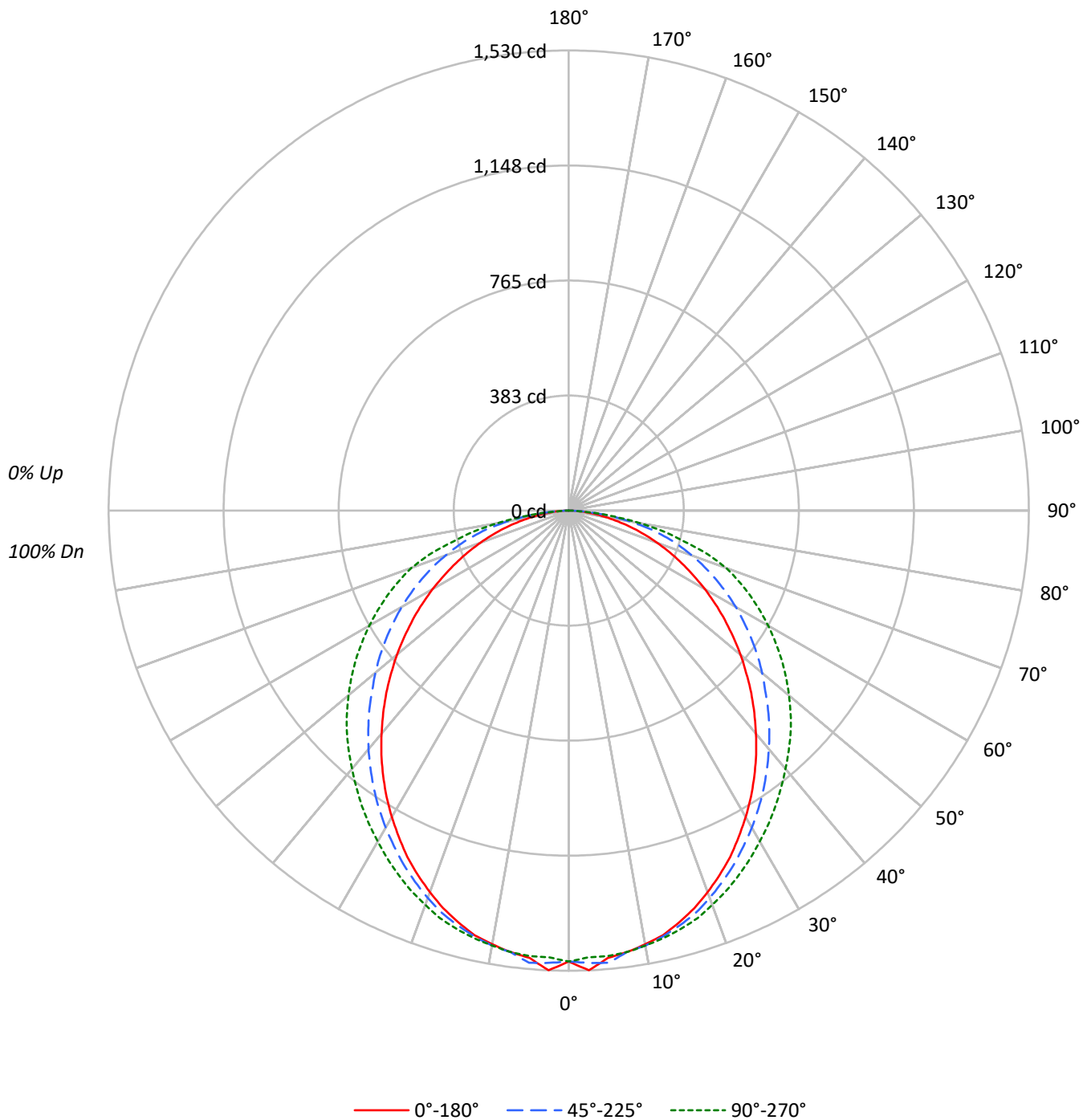
Input Watts (W): 40
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4034	4034	4034
5°	4033	4077	4017
10°	4001	4013	4013
15°	3949	3977	4011
20°	3866	3925	3995
25°	3772	3857	3972
30°	3655	3782	3947
35°	3536	3710	3938
40°	3401	3638	3939
45°	3264	3568	3972
50°	3121	3514	4001
55°	2970	3478	4053
60°	2814	3451	4122
65°	2640	3433	4227
70°	2459	3423	4371
75°	2230	3419	4141
80°	1931	3164	3671
85°	1639	2396	2334



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.2	3.4
10°-20°	402.7	9.6
20°-30°	599.1	14.3
30°-40°	708.6	16.9
40°-50°	728.3	17.3
50°-60°	665.5	15.8
60°-70°	532.4	12.7
70°-80°	334.1	8.0
80°-90°	87.0	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°	1144.1	27.2
0°-40°	1852.7	44.1
0°-60°	3246.5	77.3
0°-90°	4200.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4200.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1499	1499	1499	1499	1499	
5°	1493	1493	1509	1499	1487	142
15°	1417	1420	1428	1436	1440	399
25°	1270	1278	1299	1321	1338	584
35°	1076	1091	1129	1172	1199	673
45°	858	880	938	1007	1044	661
55°	633	664	741	823	864	566
65°	415	451	539	621	664	411
75°	214	255	329	378	398	228
85°	53	67	78	76	76	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1499.1	1499.1	1499.1	1499.1	1499.1
2.5°	1529.8	1523.6	1505.2	1493.0	1486.9
5°	1493.0	1493.0	1509.3	1499.1	1486.9
7.5°	1480.7	1480.7	1480.7	1511.4	1480.7
10°	1464.4	1466.4	1468.5	1480.7	1468.5
12.5°	1446.0	1446.0	1450.1	1454.2	1456.2
15°	1417.4	1419.5	1427.6	1435.8	1439.9
17.5°	1386.8	1392.9	1403.1	1413.3	1421.5
20°	1350.0	1358.2	1370.5	1386.8	1395.0
22.5°	1311.2	1319.4	1335.7	1354.1	1368.4
25°	1270.4	1278.5	1299.0	1321.4	1337.8
27.5°	1223.4	1233.6	1258.1	1288.8	1305.1
30°	1176.4	1188.7	1217.3	1252.0	1270.4
32.5°	1127.4	1141.7	1174.4	1213.2	1235.7
35°	1076.3	1090.6	1129.4	1172.3	1198.9
37.5°	1023.2	1039.6	1082.5	1131.5	1160.1
40°	968.1	986.5	1035.5	1088.6	1121.3
42.5°	913.0	933.4	986.5	1049.8	1082.5
45°	857.8	880.3	937.5	1006.9	1043.7
47.5°	800.6	827.2	886.4	964.0	1000.8
50°	745.5	772.0	839.4	919.1	955.8
52.5°	688.3	718.9	790.4	872.1	910.9
55°	633.1	663.8	741.4	823.1	863.9
57.5°	578.0	608.6	690.3	774.1	814.9
60°	522.9	555.5	641.3	723.0	765.9
62.5°	467.7	502.4	590.3	674.0	714.8
65°	414.6	451.4	539.2	620.9	663.8
67.5°	363.5	402.4	488.1	567.8	610.7
70°	312.5	351.3	435.0	512.6	555.5
72.5°	263.5	302.3	384.0	453.4	486.1
75°	214.5	255.3	328.8	377.8	398.3
77.5°	167.5	208.3	271.6	304.3	326.8
80°	124.6	159.3	204.2	228.7	236.9
82.5°	85.8	114.4	143.0	149.1	153.2
85°	53.1	67.4	77.6	75.6	75.6
87.5°	24.5	26.6	22.5	16.3	10.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)