

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: P230827

Luminaire Tested: **22CZ-LD5-24SE-SQP-UNV-L950-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230827
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25713)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-24SE-SQP-UNV-L950-CD1-U
Description: CRUZE 2x2 LED TROFFER
WITH SQP LENS
Light Source: (56) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1636.0 lumens
Efficiency: N/A
Efficacy: 77.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

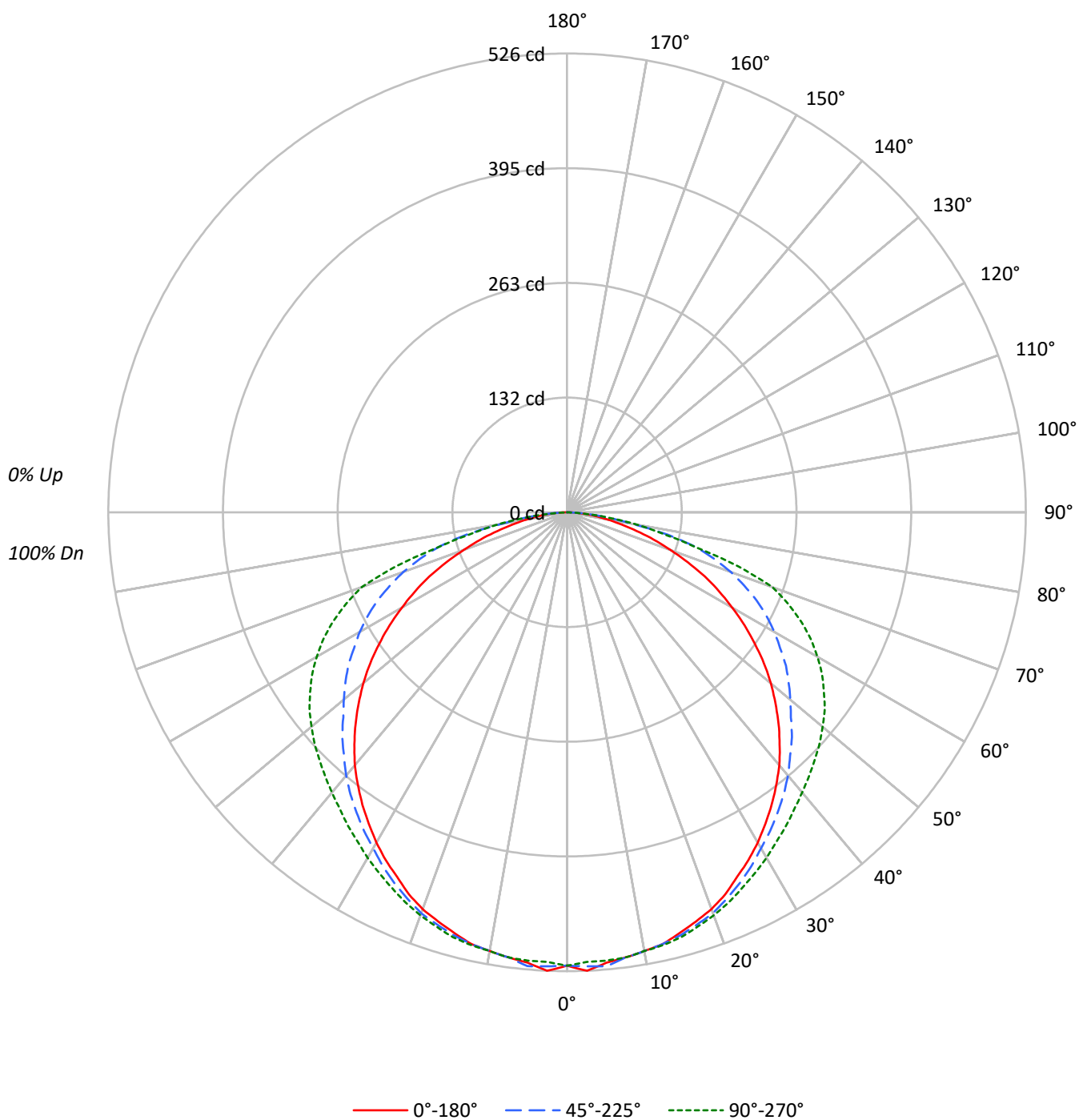
Input Watts (W): 21.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	99	95	105	101	97	93		97	93	90		93	90	87		89	87	85
2	98	89	82	76	95	87	81	75		84	78	73		80	76	71		77	73	70
3	89	78	69	62	86	76	68	62		73	66	61		70	64	59		68	63	58
4	81	68	59	52	79	67	58	52		64	57	51		62	56	50		60	54	50
5	74	61	52	45	72	60	51	44		58	50	44		56	49	43		54	48	43
6	68	55	45	39	66	54	45	39		52	44	38		50	43	38		48	42	37
7	63	49	40	34	62	49	40	34		47	39	34		45	39	33		44	38	33
8	59	45	36	30	57	44	36	30		43	35	30		42	35	30		40	34	29
9	55	41	33	27	54	41	33	27		39	32	27		38	32	27		37	31	27
10	51	38	30	24	50	37	30	24		36	29	24		35	29	24		35	28	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1398	1398	1398
5°	1400	1411	1393
10°	1395	1395	1395
15°	1391	1398	1405
20°	1386	1401	1408
25°	1369	1392	1411
30°	1358	1382	1421
35°	1344	1381	1440
40°	1330	1384	1473
45°	1305	1388	1528
50°	1276	1399	1601
55°	1234	1437	1687
60°	1176	1477	1785
65°	1109	1529	1885
70°	990	1570	1969
75°	859	1572	1559
80°	728	1162	1260
85°	627	784	707



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.3	3.0
10°-20°	141.7	8.7
20°-30°	215.9	13.2
30°-40°	264.2	16.1
40°-50°	284.3	17.4
50°-60°	275.4	16.8
60°-70°	233.2	14.3
70°-80°	141.0	8.6
80°-90°	31.0	1.9
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°	407.0	24.9
0°-40°	671.1	41.0
0°-60°	1230.8	75.2
0°-90°	1636.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1636.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	520	520	520	520	520	
5°	518	518	522	520	516	49
15°	499	501	502	503	504	141
25°	461	464	469	473	475	213
35°	409	412	420	432	438	256
45°	343	349	365	388	402	264
55°	263	274	306	342	360	235
65°	174	193	240	278	296	171
75°	83	112	151	154	150	89
85°	20	24	25	24	23	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	519.6	519.6	519.6	519.6	519.6
2.5°	526.0	524.7	520.9	518.4	515.8
5°	518.4	518.4	522.2	519.6	515.8
7.5°	514.6	514.6	514.6	520.9	514.6
10°	510.7	512.0	510.7	515.8	510.7
12.5°	506.9	506.9	506.9	508.2	508.2
15°	499.3	500.6	501.9	503.1	504.4
17.5°	491.7	493.0	495.5	496.8	498.0
20°	484.1	485.3	489.1	489.1	491.7
22.5°	473.9	473.9	479.0	480.3	484.1
25°	461.2	463.7	468.8	472.6	475.2
27.5°	449.8	452.3	457.4	462.5	466.3
30°	437.1	439.6	444.7	452.3	457.4
32.5°	423.1	425.6	433.2	442.1	447.2
35°	409.1	411.6	420.5	432.0	438.3
37.5°	393.9	397.7	407.8	420.5	428.2
40°	378.6	382.4	393.9	407.8	419.3
42.5°	360.8	365.9	378.6	397.7	410.4
45°	343.0	349.4	364.6	387.5	401.5
47.5°	324.0	330.3	348.1	377.3	392.6
50°	304.9	312.5	334.1	365.9	382.4
52.5°	284.6	292.2	320.2	354.5	372.3
55°	263.0	274.4	306.2	341.8	359.6
57.5°	241.4	254.1	289.7	327.8	346.8
60°	218.5	233.8	274.4	312.5	331.6
62.5°	196.9	213.4	257.9	296.0	315.1
65°	174.1	193.1	240.1	278.2	296.0
67.5°	149.9	174.1	219.8	256.6	274.4
70°	125.8	153.7	199.5	233.8	250.3
72.5°	104.2	133.4	176.6	205.8	205.8
75°	82.6	111.8	151.2	153.7	149.9
77.5°	63.5	91.5	118.2	108.0	110.5
80°	47.0	69.9	75.0	78.8	81.3
82.5°	31.8	47.0	48.3	50.8	50.8
85°	20.3	24.1	25.4	24.1	22.9
87.5°	8.9	10.2	7.6	5.1	3.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)