

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: P230907

Luminaire Tested: **14CZ-LD5-44-UNV-L950-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230907
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35573)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-44-UNV-L950-CD1-U
Description: CRUZE 1x4 LED TROFFER
WITH RIBBED LENS
Light Source: (84) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4221.0 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

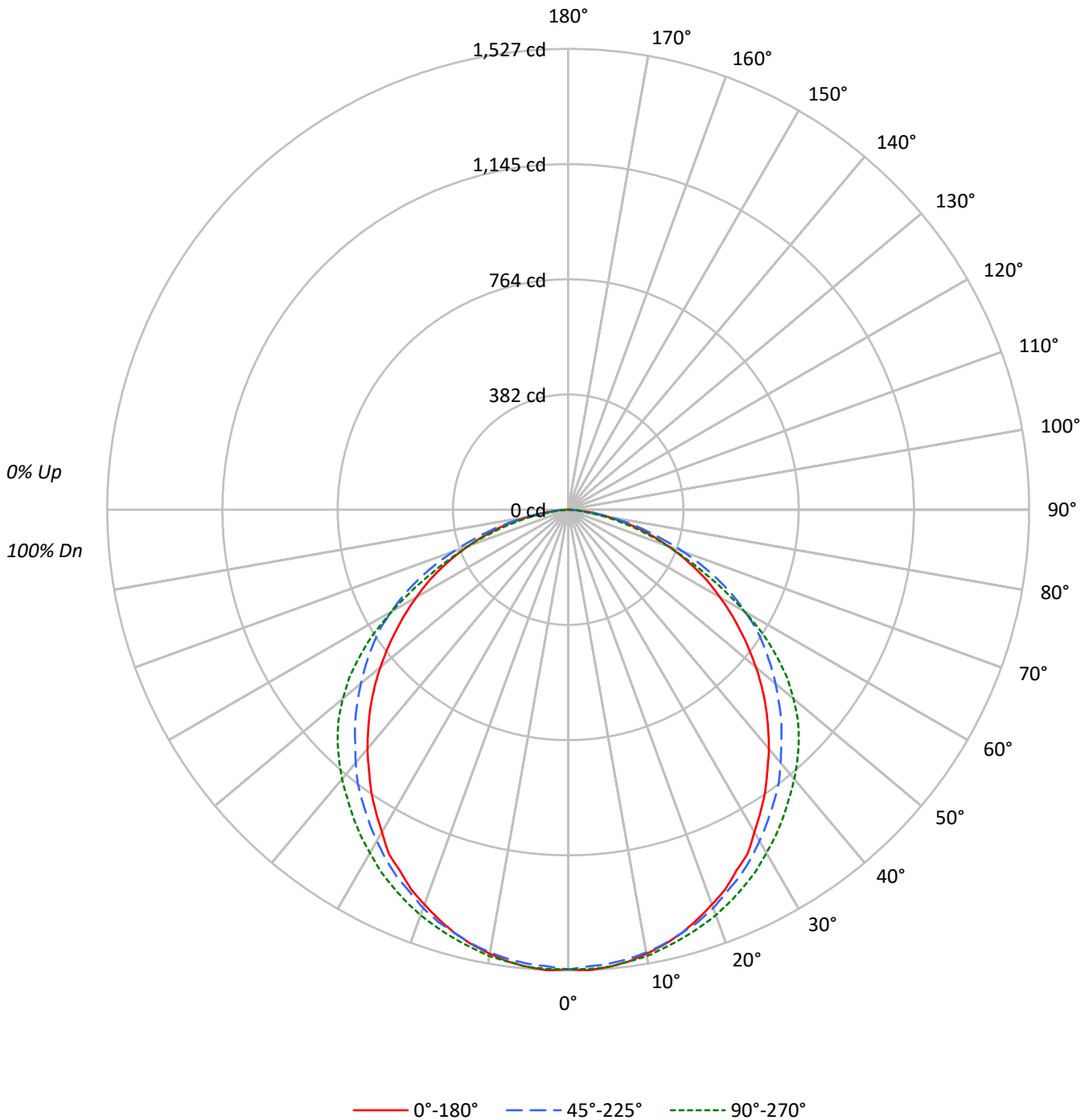
Input Watts (W): 41.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RW	70	50	30	10	70	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
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70
3	90	80	72	66	88	78	71	65	75	69	64	73	67	63	70	66	62	59
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	47	40	36	34
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	29	42	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4099	4099	4099
5°	4109	4081	4109
10°	4083	4071	4105
15°	4047	4047	4093
20°	3987	4022	4094
25°	3917	3985	4090
30°	3834	3938	4080
35°	3739	3896	4081
40°	3633	3845	4093
45°	3524	3801	4110
50°	3398	3755	4077
55°	3261	3719	3944
60°	3125	3640	3629
65°	2981	3485	3180
70°	2767	3176	2751
75°	2510	2770	2272
80°	1999	2193	1677
85°	1414	1220	963



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.1	3.4
10°-20°	411.7	9.8
20°-30°	620.8	14.7
30°-40°	744.1	17.6
40°-50°	772.2	18.3
50°-60°	696.5	16.5
60°-70°	508.1	12.0
70°-80°	266.6	6.3
80°-90°	56.9	1.3
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°	1176.7	27.9
0°-40°	1920.8	45.5
0°-60°	3389.5	80.3
0°-90°	4221.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4221.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1523	1523	1523	1523	1523	
5°	1521	1517	1511	1521	1521	144
15°	1452	1452	1452	1469	1469	409
25°	1319	1326	1342	1371	1378	609
35°	1138	1151	1186	1230	1242	711
45°	926	945	999	1059	1080	714
55°	695	720	793	845	841	622
65°	468	495	547	526	499	463
75°	241	275	266	231	218	253
85°	46	56	40	33	31	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1523.2	1523.2	1523.2	1523.2	1523.2
2.5°	1527.4	1523.2	1514.9	1523.2	1523.2
5°	1521.2	1517.0	1510.8	1521.2	1521.2
7.5°	1510.8	1506.6	1502.4	1512.8	1510.8
10°	1494.1	1492.0	1489.9	1502.4	1502.4
12.5°	1475.4	1475.4	1473.3	1487.9	1485.8
15°	1452.5	1452.5	1452.5	1469.1	1469.1
17.5°	1423.4	1427.5	1431.7	1450.4	1450.4
20°	1392.1	1396.3	1404.6	1427.5	1429.6
22.5°	1360.9	1363.0	1371.3	1398.4	1404.6
25°	1319.3	1325.6	1342.2	1371.3	1377.6
27.5°	1286.0	1288.1	1306.8	1340.1	1348.4
30°	1234.0	1248.6	1267.3	1304.7	1313.1
32.5°	1186.1	1198.6	1227.7	1267.3	1279.8
35°	1138.3	1150.8	1186.1	1229.8	1242.3
37.5°	1084.2	1102.9	1144.5	1188.2	1202.8
40°	1034.2	1050.9	1094.6	1148.7	1165.3
42.5°	980.1	996.8	1044.6	1105.0	1123.7
45°	926.0	944.7	998.8	1059.2	1080.0
47.5°	869.8	890.6	946.8	1013.4	1032.1
50°	811.6	834.5	896.9	965.6	973.9
52.5°	753.3	778.3	844.9	905.2	913.5
55°	695.0	720.0	792.8	844.9	840.7
57.5°	638.8	665.9	740.8	767.9	763.7
60°	580.6	609.7	676.3	688.8	674.2
62.5°	526.5	553.5	616.0	605.6	586.8
65°	468.2	495.3	547.3	526.5	499.4
67.5°	409.9	443.2	476.5	441.2	420.3
70°	351.7	389.1	403.7	368.3	349.6
72.5°	295.5	335.0	330.9	295.5	283.0
75°	241.4	274.7	266.4	231.0	218.5
77.5°	183.1	220.6	201.9	172.7	162.3
80°	129.0	162.3	141.5	116.5	108.2
82.5°	85.3	108.2	87.4	68.7	62.4
85°	45.8	56.2	39.5	33.3	31.2
87.5°	18.7	16.6	14.6	14.6	12.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)