

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: P#

Luminaire Tested: **22CZ-LD5-44-S-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
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-LD5-44-S-UNV-L840-CD1-U
Description: CRUZE 2x2 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4612.1 lumens
Efficiency: N/A
Efficacy: 110.3 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.1')
CIE Type: Direct

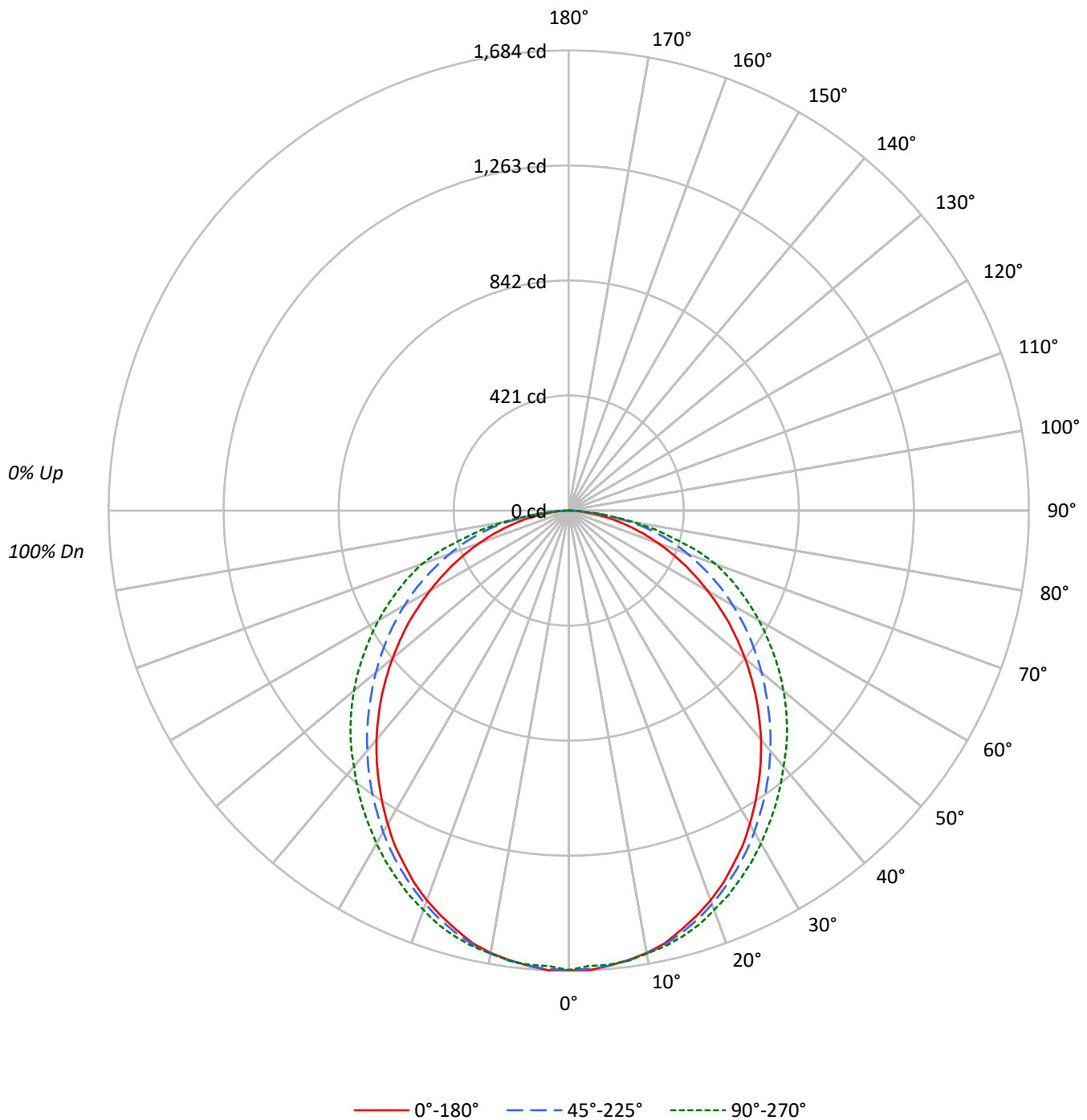
Input Watts (W): 41.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4525	4525	4525
5°	4498	4490	4486
10°	4452	4442	4458
15°	4366	4373	4433
20°	4268	4280	4374
25°	4139	4171	4313
30°	4001	4054	4248
35°	3846	3932	4184
40°	3689	3805	4123
45°	3517	3677	4095
50°	3326	3558	4053
55°	3133	3446	4006
60°	2907	3325	3983
65°	2675	3197	3962
70°	2406	3050	3953
75°	2077	2861	3514
80°	1685	2401	2835
85°	1132	1400	1436



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.8	3.4
10°-20°	451.0	9.8
20°-30°	669.9	14.5
30°-40°	788.6	17.1
40°-50°	803.9	17.4
50°-60°	725.1	15.7
60°-70°	571.1	12.4
70°-80°	352.3	7.6
80°-90°	91.5	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°	1279.7	27.7
0°-40°	2068.3	44.8
0°-60°	3597.3	78.0
0°-90°	4612.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4612.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1681	1681	1681	1681	1681	
5°	1672	1675	1672	1670	1668	159
15°	1588	1595	1599	1608	1613	448
25°	1427	1436	1451	1475	1486	657
35°	1212	1225	1256	1296	1318	758
45°	970	986	1034	1097	1130	748
55°	716	740	809	882	915	639
65°	465	498	578	651	689	461
75°	237	277	348	388	401	253
85°	58	73	82	78	73	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1681.4	1681.4	1681.4	1681.4	1681.4
2.5°	1683.6	1683.6	1679.2	1674.7	1668.1
5°	1672.5	1674.7	1672.5	1670.3	1668.1
7.5°	1659.2	1661.4	1661.4	1661.4	1661.4
10°	1643.7	1645.9	1645.9	1645.9	1645.9
12.5°	1621.6	1623.8	1626.0	1628.2	1632.6
15°	1588.3	1595.0	1599.4	1608.3	1612.7
17.5°	1555.1	1561.8	1568.4	1579.5	1588.3
20°	1517.5	1521.9	1533.0	1546.3	1555.1
22.5°	1475.4	1482.0	1493.1	1510.8	1524.1
25°	1426.6	1435.5	1451.0	1475.4	1486.4
27.5°	1380.1	1386.8	1406.7	1433.3	1448.8
30°	1324.7	1333.6	1358.0	1391.2	1406.7
32.5°	1269.3	1280.4	1307.0	1344.7	1362.4
35°	1211.7	1225.0	1256.1	1295.9	1318.1
37.5°	1154.1	1167.4	1202.9	1247.2	1271.6
40°	1094.3	1107.6	1147.5	1196.2	1222.8
42.5°	1032.3	1047.8	1092.1	1147.5	1178.5
45°	970.3	985.8	1034.5	1096.6	1129.8
47.5°	906.0	923.8	976.9	1045.6	1078.8
50°	841.8	861.7	921.5	992.4	1025.7
52.5°	777.6	799.7	864.0	937.1	972.5
55°	715.5	739.9	808.6	881.7	914.9
57.5°	649.1	677.9	751.0	821.9	859.5
60°	587.0	618.1	693.4	764.3	804.1
62.5°	525.0	558.2	638.0	708.9	746.5
65°	465.2	498.4	578.2	651.3	688.9
67.5°	405.4	443.1	520.6	593.7	631.3
70°	347.8	387.7	463.0	533.9	571.5
72.5°	292.4	332.3	407.6	474.1	496.2
75°	237.0	276.9	347.8	387.7	401.0
77.5°	186.1	223.7	285.8	310.1	327.9
80°	139.6	172.8	217.1	232.6	234.8
82.5°	95.3	124.1	150.6	152.9	150.6
85°	57.6	73.1	82.0	77.5	73.1
87.5°	26.6	28.8	26.6	17.7	11.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)