

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: P276140

Luminaire Tested: **24CZ2-30-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276140
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-5)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-30-UNV-L82765-W2A1-U-6500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2998.8 lumens
Efficiency: N/A
Efficacy: 132.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

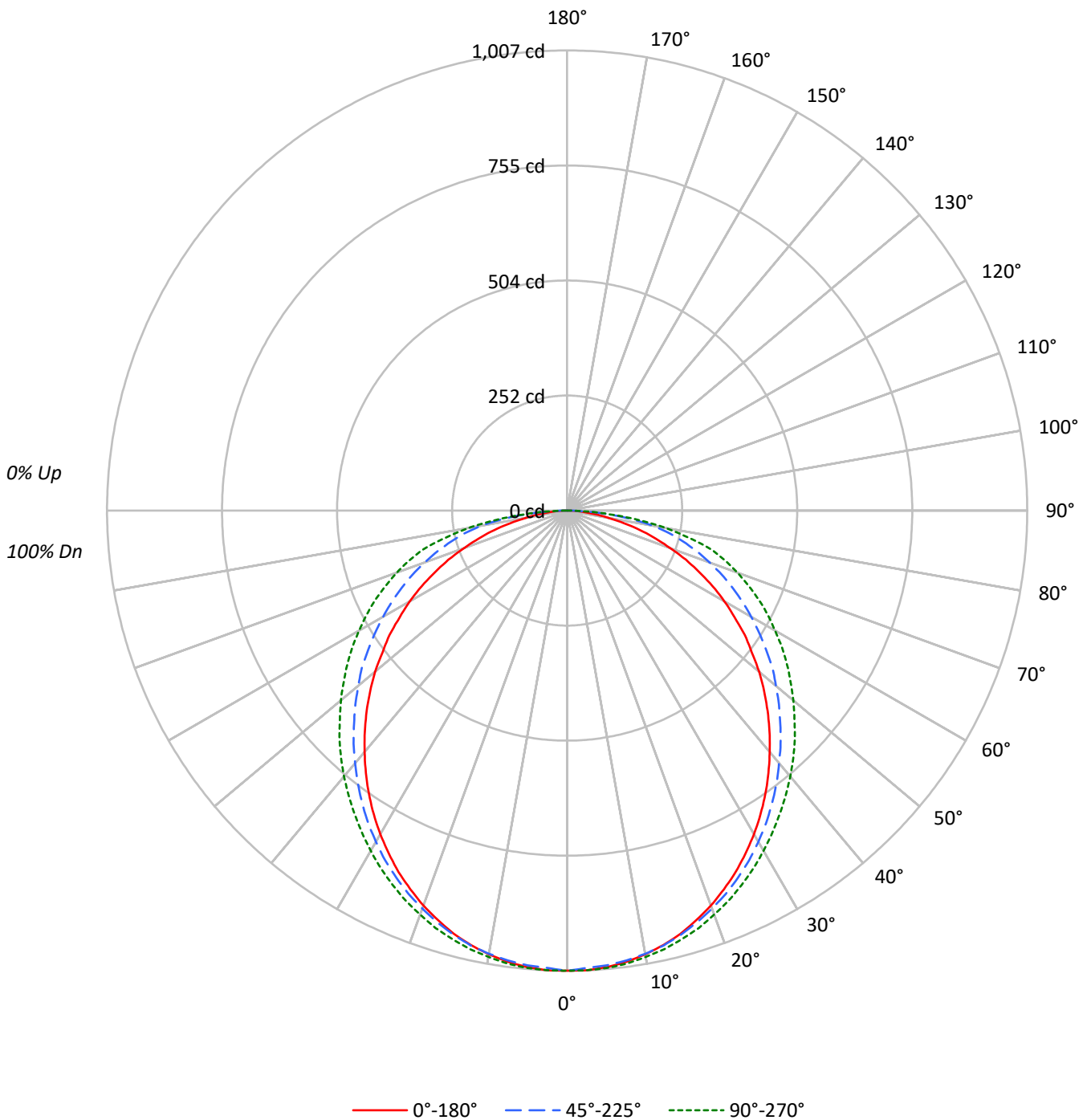
Input Watts (W): 22.692
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	103	98	94	105	100	96	92	96	93	89	92	89	87	89	86	84	82
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	58	56
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	50	48
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	39	50	44	38	49	43	38	36
7	64	50	41	35	62	49	40	34	47	40	34	46	39	34	45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1355	1355	1355
5°	1354	1349	1357
10°	1347	1345	1355
15°	1336	1338	1352
20°	1317	1327	1347
25°	1296	1315	1342
30°	1270	1300	1336
35°	1243	1284	1332
40°	1211	1267	1334
45°	1181	1255	1341
50°	1148	1249	1353
55°	1113	1247	1378
60°	1069	1252	1414
65°	1013	1271	1475
70°	941	1303	1559
75°	858	1368	1691
80°	706	1474	1691
85°	540	1360	1453



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.2	3.2
10°-20°	271.9	9.1
20°-30°	409.1	13.6
30°-40°	490.3	16.3
40°-50°	510.9	17.0
50°-60°	475.3	15.9
60°-70°	391.5	13.1
70°-80°	266.6	8.9
80°-90°	88.0	2.9
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°	776.2	25.9
0°-40°	1266.4	42.2
0°-60°	2252.7	75.1
0°-90°	2998.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2998.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1007	1007	1007	1007	1007	
5°	1003	1003	999	1004	1005	95
15°	959	960	961	970	971	270
25°	873	877	886	901	904	402
35°	757	766	782	803	811	473
45°	620	634	660	693	705	479
55°	474	490	531	574	588	423
65°	318	345	399	446	463	316
75°	165	202	263	310	325	174
85°	35	68	88	94	94	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1006.8	1006.8	1006.8	1006.8	1006.8
2.5°	1006.8	1006.8	1001.8	1006.8	1006.8
5°	1002.8	1002.8	998.8	1003.8	1004.8
7.5°	995.8	996.8	992.8	998.8	999.8
10°	985.8	986.8	984.8	990.8	991.8
12.5°	973.8	974.8	974.8	981.8	982.8
15°	958.8	959.8	960.8	969.8	970.8
17.5°	939.8	942.8	944.8	955.8	957.8
20°	919.8	922.8	926.8	938.8	940.8
22.5°	896.8	900.8	907.8	920.8	923.8
25°	872.7	876.7	885.7	900.8	903.8
27.5°	845.7	851.7	862.7	878.7	882.7
30°	817.7	823.7	836.7	853.7	859.7
32.5°	787.7	795.7	810.7	829.7	835.7
35°	756.6	765.6	781.7	802.7	810.7
37.5°	723.6	733.6	752.6	775.6	785.7
40°	689.6	701.6	721.6	748.6	759.6
42.5°	655.5	666.6	691.6	720.6	732.6
45°	620.5	633.5	659.6	692.6	704.6
47.5°	584.5	597.5	628.5	663.6	674.6
50°	548.5	561.5	596.5	633.5	646.5
52.5°	509.4	526.4	566.5	603.5	616.5
55°	474.4	490.4	531.4	573.5	587.5
57.5°	434.4	453.4	498.4	542.5	557.5
60°	397.3	417.3	465.4	510.4	525.4
62.5°	359.3	381.3	432.4	478.4	495.4
65°	318.3	345.3	399.3	446.4	463.4
67.5°	281.2	309.3	366.3	414.3	429.4
70°	239.2	273.2	331.3	379.3	396.3
72.5°	203.2	237.2	298.2	345.3	362.3
75°	165.1	202.2	263.2	310.3	325.3
77.5°	127.1	168.1	229.2	265.2	270.2
80°	91.1	134.1	190.2	211.2	218.2
82.5°	64.1	103.1	140.1	154.1	158.1
85°	35.0	68.1	88.1	94.1	94.1
87.5°	15.0	29.0	35.0	36.0	37.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)