

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: P276556

Luminaire Tested: **24CZ2-30-S-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276556
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-1)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-30-S-UNV-L82765-W2A1-U-4500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3062.5 lumens
Efficiency: N/A
Efficacy: 138.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

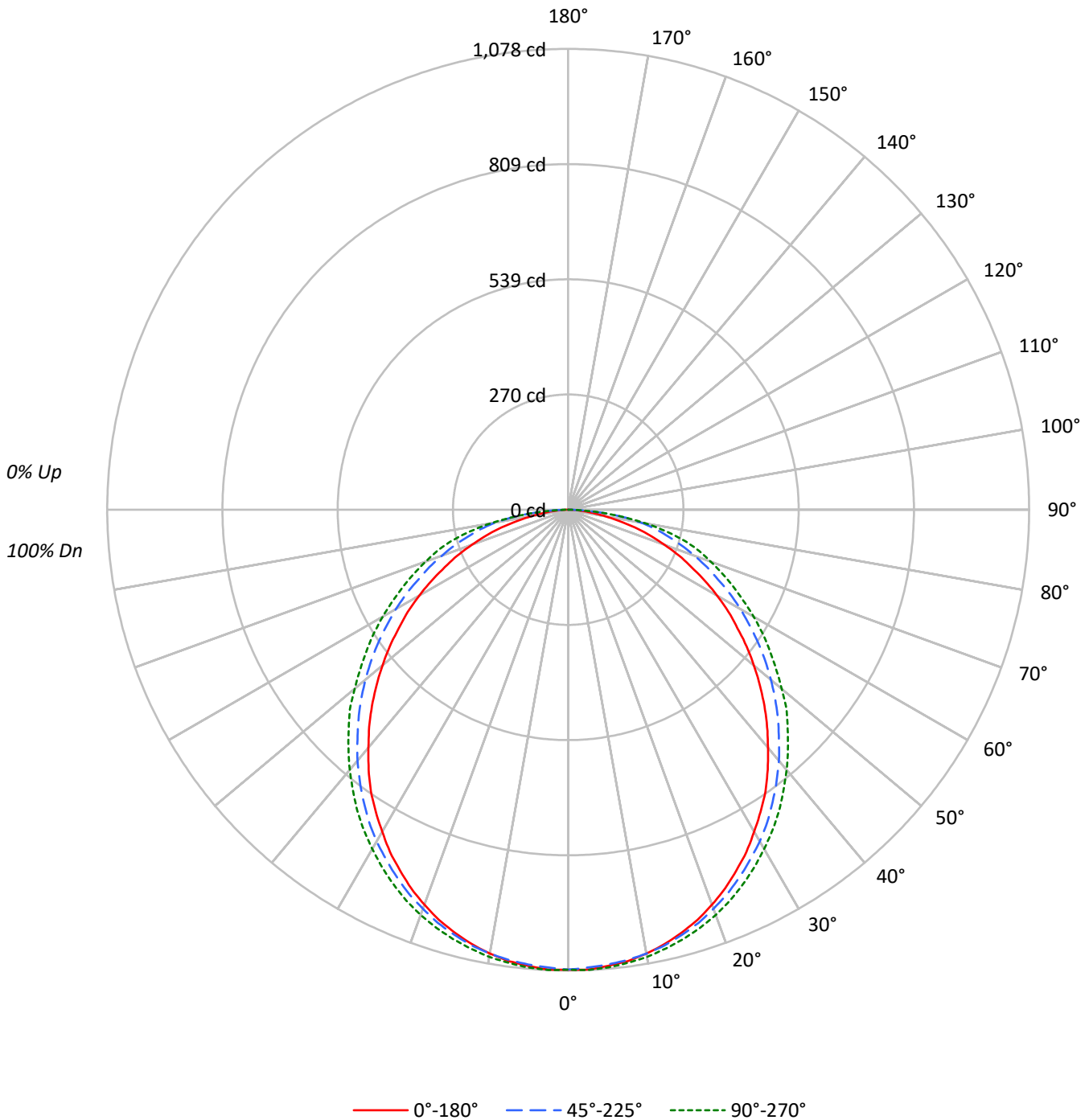
Input Watts (W): 22.134
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1448	1448	1448
5°	1447	1443	1452
10°	1441	1441	1451
15°	1427	1434	1449
20°	1408	1422	1444
25°	1382	1408	1435
30°	1351	1392	1424
35°	1321	1369	1412
40°	1276	1346	1396
45°	1235	1320	1381
50°	1187	1295	1364
55°	1134	1271	1351
60°	1081	1251	1348
65°	1013	1230	1357
70°	937	1236	1393
75°	840	1259	1472
80°	678	1334	1440
85°	511	1172	1141



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.9	3.3
10°-20°	291.0	9.5
20°-30°	437.5	14.3
30°-40°	521.1	17.0
40°-50°	533.3	17.4
50°-60°	480.2	15.7
60°-70°	377.1	12.3
70°-80°	244.7	8.0
80°-90°	75.7	2.5
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°	830.4	27.1
0°-40°	1351.5	44.1
0°-60°	2365.0	77.2
0°-90°	3062.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3062.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1076	1076	1076	1076	1076	
5°	1071	1073	1068	1074	1075	102
15°	1024	1027	1029	1038	1040	289
25°	931	939	948	964	967	429
35°	804	814	834	854	860	502
45°	649	664	694	720	726	500
55°	484	505	542	570	576	433
65°	318	342	386	418	426	317
75°	162	193	242	275	283	171
85°	33	61	76	74	74	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1075.9	1075.9	1075.9	1075.9	1075.9
2.5°	1076.8	1076.8	1072.0	1076.8	1077.8
5°	1071.0	1073.0	1068.1	1073.9	1074.9
7.5°	1065.2	1065.2	1062.3	1068.1	1069.1
10°	1054.5	1055.4	1054.5	1061.3	1062.3
12.5°	1040.9	1042.8	1043.8	1050.6	1051.6
15°	1024.3	1027.2	1029.2	1037.9	1039.9
17.5°	1005.8	1008.8	1013.6	1023.3	1025.3
20°	983.5	987.4	993.2	1005.8	1008.8
22.5°	959.1	963.0	972.8	984.4	989.3
25°	930.9	938.7	948.4	964.0	966.9
27.5°	902.7	909.5	922.2	938.7	942.6
30°	869.6	880.3	895.9	912.5	916.3
32.5°	837.5	848.2	866.7	884.2	889.1
35°	804.5	814.2	833.7	854.1	859.9
37.5°	766.5	779.2	800.6	821.0	826.8
40°	726.7	742.2	766.5	787.9	794.7
42.5°	688.7	705.3	729.6	752.9	760.7
45°	648.8	664.4	693.6	719.8	725.7
47.5°	608.0	625.5	656.6	682.9	692.6
50°	567.1	585.6	618.7	645.9	651.8
52.5°	526.3	545.7	580.7	609.9	612.8
55°	483.5	504.9	541.8	570.0	575.9
57.5°	444.6	463.0	502.9	532.1	538.9
60°	401.8	422.2	465.0	492.2	501.0
62.5°	360.9	382.3	427.0	454.3	462.1
65°	318.1	342.4	386.2	418.3	426.1
67.5°	281.1	304.5	351.2	382.3	390.1
70°	238.3	264.6	314.2	346.3	354.1
72.5°	201.4	228.6	278.2	309.3	321.0
75°	161.5	192.6	242.2	275.3	283.1
77.5°	122.6	158.6	209.1	234.4	234.4
80°	87.5	125.5	172.2	183.9	185.8
82.5°	57.4	94.4	127.4	126.5	126.5
85°	33.1	61.3	75.9	73.9	73.9
87.5°	12.6	25.3	27.2	27.2	26.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)