

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: P276560

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276560
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-6500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3150.9 lumens
Efficiency: N/A
Efficacy: 138.9 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

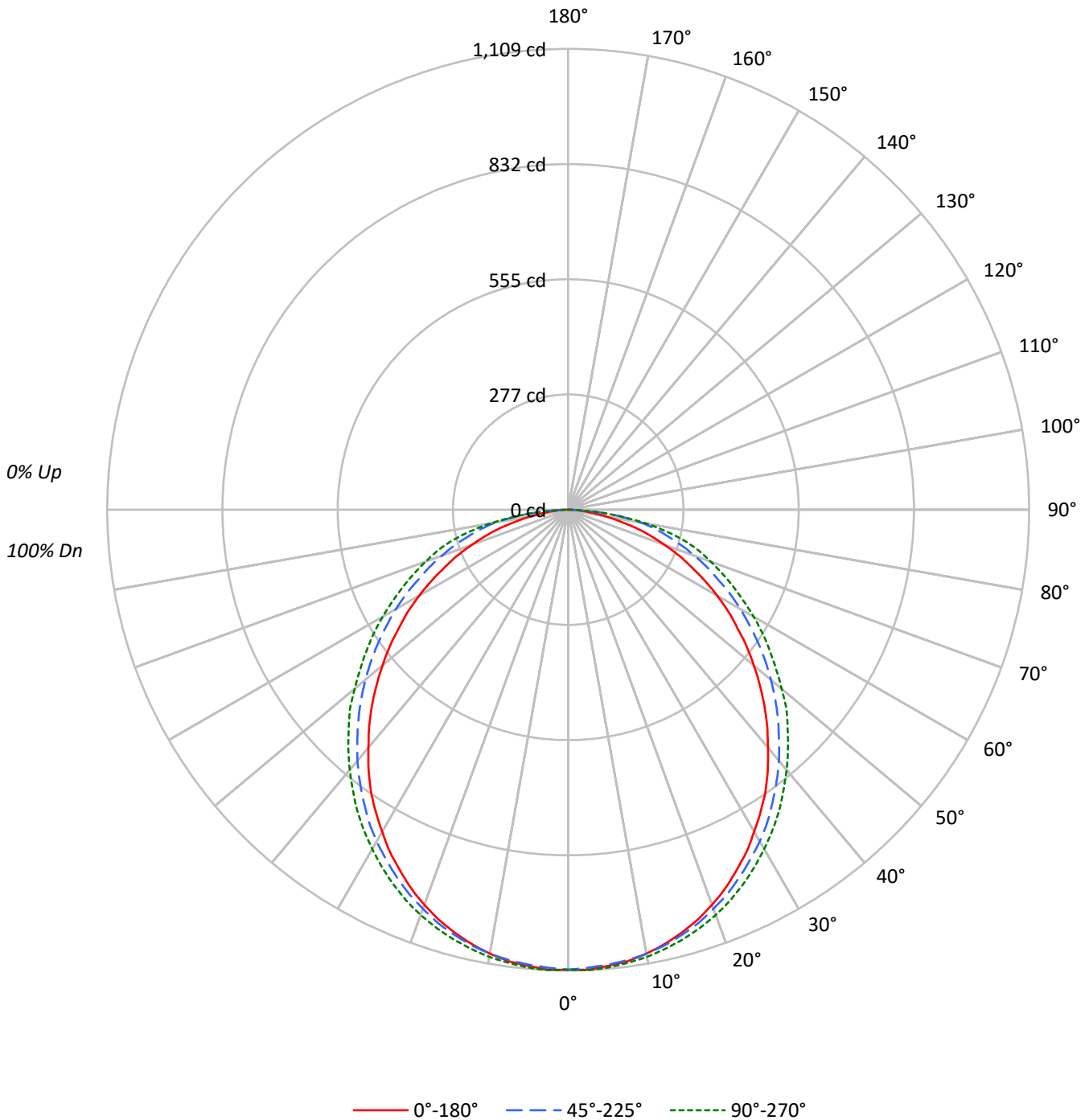
Input Watts (W): 22.692
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1489	1489	1489
5°	1488	1484	1494
10°	1482	1482	1493
15°	1468	1475	1490
20°	1449	1463	1486
25°	1422	1449	1477
30°	1390	1432	1465
35°	1360	1409	1453
40°	1313	1385	1436
45°	1270	1358	1421
50°	1221	1332	1404
55°	1167	1308	1390
60°	1112	1287	1387
65°	1042	1265	1396
70°	965	1272	1433
75°	863	1295	1514
80°	698	1373	1481
85°	525	1206	1175



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.8	3.3
10°-20°	299.4	9.5
20°-30°	450.1	14.3
30°-40°	536.2	17.0
40°-50°	548.7	17.4
50°-60°	494.0	15.7
60°-70°	388.0	12.3
70°-80°	251.8	8.0
80°-90°	77.9	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°	854.4	27.1
0°-40°	1390.5	44.1
0°-60°	2433.3	77.2
0°-90°	3150.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3150.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1107	1107	1107	1107	1107	
5°	1102	1104	1099	1105	1106	105
15°	1054	1057	1059	1068	1070	297
25°	958	966	976	992	995	441
35°	828	838	858	879	885	516
45°	668	684	714	741	747	515
55°	497	519	558	586	592	446
65°	327	352	397	430	438	326
75°	166	198	249	283	291	176
85°	34	63	78	76	76	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1107.0	1107.0	1107.0	1107.0	<i>1107.0</i>
2.5°	<i>1108.0</i>	<i>1108.0</i>	<i>1103.0</i>	<i>1108.0</i>	<i>1109.0</i>
5°	1101.9	1104.0	1098.9	1105.0	<i>1106.0</i>
7.5°	1095.9	1095.9	1092.9	1098.9	<i>1099.9</i>
10°	1084.9	1085.9	1084.9	1091.9	<i>1092.9</i>
12.5°	1070.9	1072.9	1073.9	1080.9	<i>1081.9</i>
15°	1053.9	1056.9	1058.9	1067.9	<i>1069.9</i>
17.5°	1034.9	1037.9	1042.9	1052.9	<i>1054.9</i>
20°	1011.9	1015.9	1021.9	1034.9	<i>1037.9</i>
22.5°	986.9	990.9	1000.9	1012.9	<i>1017.9</i>
25°	957.8	965.8	975.8	991.9	<i>994.9</i>
27.5°	928.8	935.8	948.8	965.8	<i>969.8</i>
30°	894.8	905.8	921.8	938.8	<i>942.8</i>
32.5°	861.7	872.8	891.8	909.8	<i>914.8</i>
35°	827.7	837.7	857.7	878.8	<i>884.8</i>
37.5°	788.7	801.7	823.7	844.7	<i>850.7</i>
40°	747.6	763.7	788.7	810.7	<i>817.7</i>
42.5°	708.6	725.6	750.6	774.7	<i>782.7</i>
45°	667.6	683.6	713.6	740.6	<i>746.6</i>
47.5°	625.5	643.6	675.6	702.6	<i>712.6</i>
50°	583.5	602.5	636.5	664.6	<i>670.6</i>
52.5°	541.5	561.5	597.5	627.5	<i>630.5</i>
55°	497.4	519.4	557.5	586.5	<i>592.5</i>
57.5°	457.4	476.4	517.4	547.5	<i>554.5</i>
60°	413.4	434.4	478.4	506.4	<i>515.4</i>
62.5°	371.3	393.3	439.4	467.4	<i>475.4</i>
65°	327.3	352.3	397.3	430.4	<i>438.4</i>
67.5°	289.2	313.3	361.3	393.3	<i>401.3</i>
70°	245.2	272.2	323.3	356.3	<i>364.3</i>
72.5°	207.2	235.2	286.2	318.3	<i>330.3</i>
75°	166.1	198.2	249.2	283.2	<i>291.3</i>
77.5°	126.1	163.1	215.2	241.2	<i>241.2</i>
80°	90.1	129.1	177.2	189.2	<i>191.2</i>
82.5°	59.1	97.1	131.1	130.1	<i>130.1</i>
85°	34.0	63.1	78.1	76.1	<i>76.1</i>
87.5°	13.0	26.0	28.0	28.0	<i>27.0</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)