

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: P276056

Luminaire Tested: **24CZ2-35HE-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276056
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: 24CZ2-35HE-UNV-L82765-W2A1-U-5000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3427.4 lumens
Efficiency: N/A
Efficacy: 138.5 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

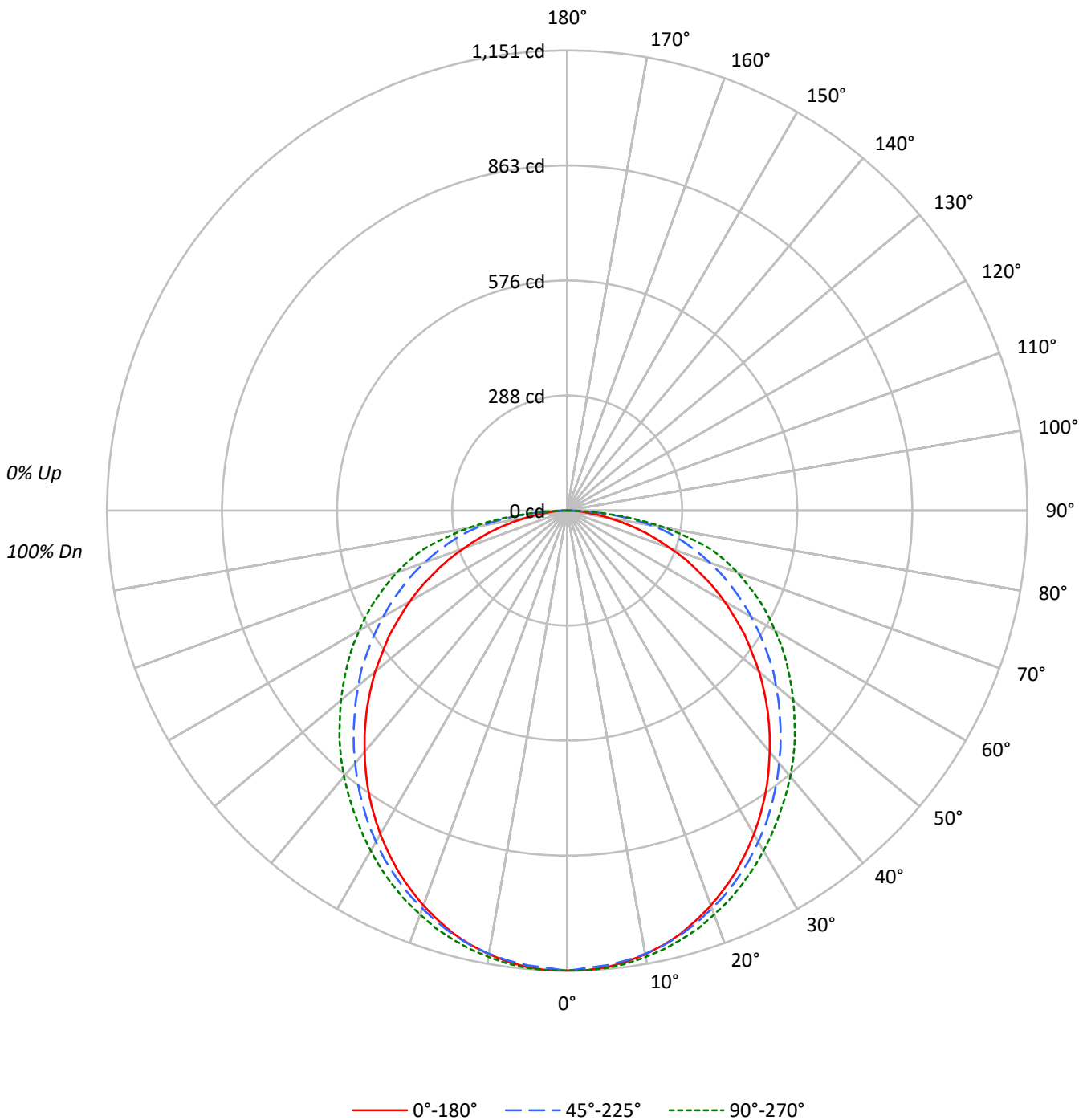
Input Watts (W): 24.738
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1548	1548	1548
5°	1548	1542	1551
10°	1539	1538	1549
15°	1526	1530	1545
20°	1505	1517	1540
25°	1481	1503	1533
30°	1452	1486	1527
35°	1420	1467	1522
40°	1384	1449	1525
45°	1349	1434	1532
50°	1312	1427	1547
55°	1272	1425	1575
60°	1222	1431	1616
65°	1158	1453	1686
70°	1076	1489	1782
75°	981	1564	1933
80°	807	1684	1932
85°	618	1555	1660



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.8	3.2
10°-20°	310.7	9.1
20°-30°	467.6	13.6
30°-40°	560.3	16.3
40°-50°	583.9	17.0
50°-60°	543.3	15.9
60°-70°	447.4	13.1
70°-80°	304.7	8.9
80°-90°	100.6	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°	887.1	25.9
0°-40°	1447.4	42.2
0°-60°	2574.6	75.1
0°-90°	3427.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3427.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1151	1151	1151	1151	1151	
5°	1146	1146	1142	1147	1148	109
15°	1096	1097	1098	1108	1110	309
25°	997	1002	1012	1030	1033	459
35°	865	875	893	917	926	541
45°	709	724	754	792	805	547
55°	542	560	607	655	671	483
65°	364	395	456	510	530	361
75°	189	231	301	355	372	199
85°	40	78	101	108	108	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1150.7	1150.7	1150.7	1150.7	1150.7
2.5°	1150.7	1150.7	1145.0	1150.7	1150.7
5°	1146.1	1146.1	1141.6	1147.3	1148.4
7.5°	1138.1	1139.3	1134.7	1141.6	1142.7
10°	1126.7	1127.8	1125.6	1132.4	1133.6
12.5°	1113.0	1114.1	1114.1	1122.1	1123.3
15°	1095.8	1097.0	1098.1	1108.4	1109.5
17.5°	1074.1	1077.5	1079.8	1092.4	1094.7
20°	1051.2	1054.6	1059.2	1072.9	1075.2
22.5°	1024.9	1029.5	1037.5	1052.4	1055.8
25°	997.4	1002.0	1012.3	1029.5	1032.9
27.5°	966.6	973.4	986.0	1004.3	1008.9
30°	934.5	941.4	956.3	975.7	982.6
32.5°	900.2	909.4	926.5	948.3	955.1
35°	864.8	875.1	893.4	917.4	926.5
37.5°	827.0	838.4	860.2	886.5	897.9
40°	788.1	801.8	824.7	855.6	868.2
42.5°	749.2	761.8	790.4	823.6	837.3
45°	709.2	724.1	753.8	791.6	805.3
47.5°	668.0	682.9	718.3	758.4	771.0
50°	626.8	641.7	681.7	724.1	738.9
52.5°	582.2	601.7	647.4	689.7	704.6
55°	542.2	560.5	607.4	655.4	671.4
57.5°	496.4	518.2	569.6	620.0	637.1
60°	454.1	477.0	531.9	583.4	600.5
62.5°	410.6	435.8	494.1	546.8	566.2
65°	363.7	394.6	456.4	510.2	529.6
67.5°	321.4	353.5	418.7	473.6	490.7
70°	273.4	312.3	378.6	433.5	453.0
72.5°	232.2	271.1	340.9	394.6	414.1
75°	188.7	231.1	300.8	354.6	371.8
77.5°	145.3	192.2	261.9	303.1	308.8
80°	104.1	153.3	217.3	241.4	249.4
82.5°	73.2	117.8	160.1	176.2	180.7
85°	40.0	77.8	100.7	107.5	107.5
87.5°	17.2	33.2	40.0	41.2	42.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)