

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: P275899

Luminaire Tested: **24CZ2-35HE-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275899
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-L83050-W2A1-U-4000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3495.0 lumens
Efficiency: N/A
Efficacy: 141.3 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

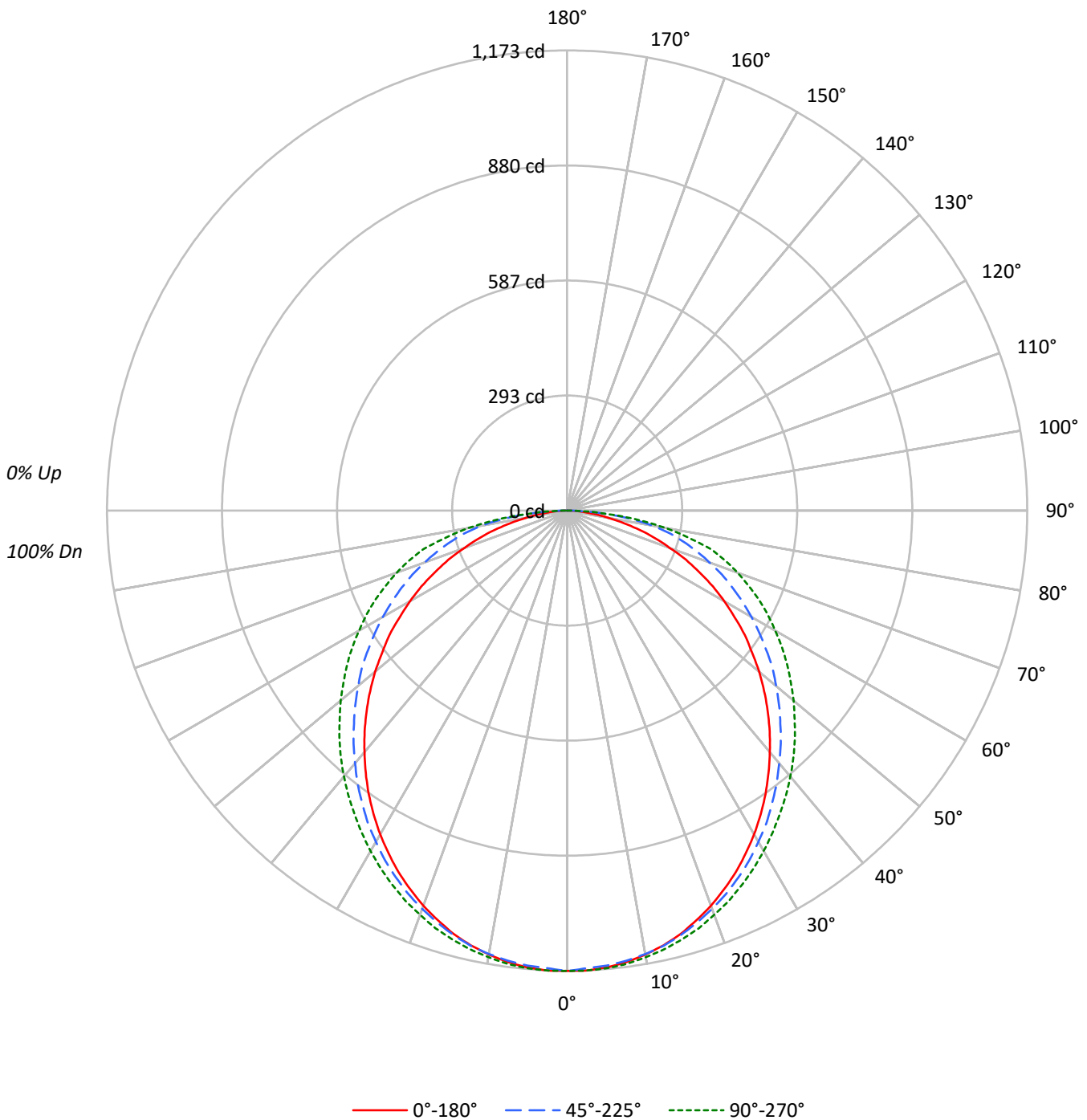
Input Watts (W): 24.738
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1579	1579	1579
5°	1579	1572	1582
10°	1570	1568	1579
15°	1556	1560	1576
20°	1535	1547	1570
25°	1510	1533	1564
30°	1481	1515	1557
35°	1448	1496	1552
40°	1412	1477	1555
45°	1376	1463	1563
50°	1338	1455	1577
55°	1297	1453	1606
60°	1246	1460	1648
65°	1181	1482	1720
70°	1097	1519	1817
75°	1001	1595	1971
80°	822	1717	1970
85°	630	1584	1692



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.0	3.2
10°-20°	316.8	9.1
20°-30°	476.8	13.6
30°-40°	571.4	16.3
40°-50°	595.4	17.0
50°-60°	554.0	15.9
60°-70°	456.3	13.1
70°-80°	310.7	8.9
80°-90°	102.6	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°	904.6	25.9
0°-40°	1476.0	42.2
0°-60°	2625.4	75.1
0°-90°	3495.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3495.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1173	1173	1173	1173	1173	
5°	1169	1169	1164	1170	1171	111
15°	1117	1119	1120	1130	1131	315
25°	1017	1022	1032	1050	1053	468
35°	882	892	911	936	945	551
45°	723	738	769	807	821	558
55°	553	572	619	668	685	493
65°	371	402	465	520	540	368
75°	192	236	307	362	379	203
85°	41	79	103	110	110	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1173.4	1173.4	1173.4	1173.4	1173.4
2.5°	1173.4	1173.4	1167.6	1173.4	1173.4
5°	1168.8	1168.8	1164.1	1169.9	1171.1
7.5°	1160.6	1161.8	1157.1	1164.1	1165.3
10°	1148.9	1150.1	1147.8	1154.8	1155.9
12.5°	1134.9	1136.1	1136.1	1144.3	1145.4
15°	1117.4	1118.6	1119.8	1130.3	1131.4
17.5°	1095.3	1098.8	1101.1	1113.9	1116.3
20°	1072.0	1075.5	1080.1	1094.1	1096.4
22.5°	1045.1	1049.8	1058.0	1073.1	1076.6
25°	1017.1	1021.8	1032.3	1049.8	1053.3
27.5°	985.6	992.6	1005.5	1024.1	1028.8
30°	953.0	960.0	975.1	995.0	1002.0
32.5°	918.0	927.3	944.8	967.0	974.0
35°	881.8	892.3	911.0	935.5	944.8
37.5°	843.3	855.0	877.2	904.0	915.7
40°	803.7	817.7	841.0	872.5	885.3
42.5°	764.0	776.8	806.0	839.8	853.8
45°	723.2	738.4	768.7	807.2	821.2
47.5°	681.2	696.4	732.5	773.3	786.2
50°	639.2	654.4	695.2	738.4	753.5
52.5°	593.7	613.5	660.2	703.4	718.5
55°	552.9	571.6	619.4	668.4	684.7
57.5°	506.2	528.4	580.9	632.2	649.7
60°	463.1	486.4	542.4	594.9	612.4
62.5°	418.8	444.4	503.9	557.6	577.4
65°	370.9	402.4	465.4	520.2	540.1
67.5°	327.8	360.4	426.9	482.9	500.4
70°	278.8	318.4	386.1	442.1	461.9
72.5°	236.8	276.4	347.6	402.4	422.2
75°	192.5	235.6	306.8	361.6	379.1
77.5°	148.1	196.0	267.1	309.1	314.9
80°	106.1	156.3	221.6	246.1	254.3
82.5°	74.7	120.1	163.3	179.6	184.3
85°	40.8	79.3	102.6	109.6	109.6
87.5°	17.5	33.8	40.8	42.0	43.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)