

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: P276146

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276146
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: 24CZ2-35-UNV-L82765-W2A1-U-5000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3464.3 lumens
Efficiency: N/A
Efficacy: 129.8 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

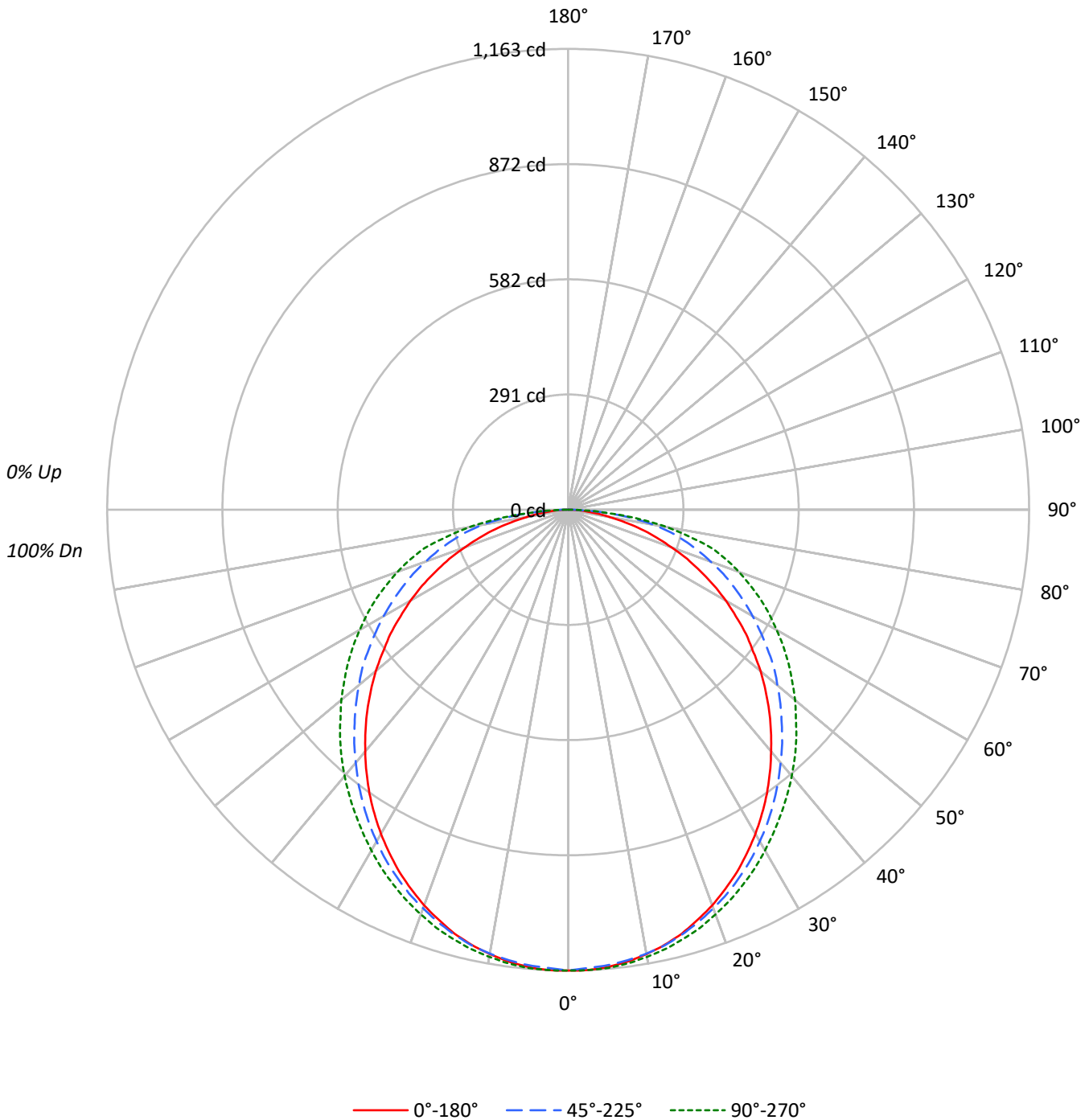
Input Watts (W): 26.691
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1565	1565	1565
5°	1565	1558	1568
10°	1556	1554	1565
15°	1543	1546	1562
20°	1521	1533	1556
25°	1497	1519	1550
30°	1468	1502	1543
35°	1436	1483	1538
40°	1399	1464	1541
45°	1364	1450	1549
50°	1326	1442	1563
55°	1285	1440	1592
60°	1235	1447	1633
65°	1171	1469	1704
70°	1087	1506	1801
75°	992	1581	1954
80°	815	1702	1953
85°	625	1570	1678



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.0	3.2
10°-20°	314.0	9.1
20°-30°	472.6	13.6
30°-40°	566.4	16.3
40°-50°	590.2	17.0
50°-60°	549.1	15.9
60°-70°	452.3	13.1
70°-80°	308.0	8.9
80°-90°	101.7	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°	896.6	25.9
0°-40°	1463.0	42.2
0°-60°	2602.3	75.1
0°-90°	3464.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3464.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1163	1163	1163	1163	1163	
5°	1158	1158	1154	1160	1161	110
15°	1108	1109	1110	1120	1122	312
25°	1008	1013	1023	1041	1044	464
35°	874	884	903	927	936	546
45°	717	732	762	800	814	553
55°	548	566	614	662	679	488
65°	368	399	461	516	535	365
75°	191	234	304	358	376	201
85°	40	79	102	109	109	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1163.1	1163.1	1163.1	1163.1	1163.1
2.5°	1163.1	1163.1	1157.3	1163.1	1163.1
5°	1158.5	1158.5	1153.9	1159.6	1160.8
7.5°	1150.4	1151.5	1146.9	1153.9	1155.0
10°	1138.8	1140.0	1137.7	1144.6	1145.8
12.5°	1125.0	1126.1	1126.1	1134.2	1135.4
15°	1107.6	1108.8	1109.9	1120.3	1121.5
17.5°	1085.6	1089.1	1091.4	1104.1	1106.5
20°	1062.5	1066.0	1070.6	1084.5	1086.8
22.5°	1035.9	1040.6	1048.6	1063.7	1067.1
25°	1008.2	1012.8	1023.2	1040.6	1044.0
27.5°	977.0	983.9	996.6	1015.1	1019.7
30°	944.6	951.5	966.6	986.2	993.2
32.5°	909.9	919.2	936.5	958.5	965.4
35°	874.1	884.5	903.0	927.3	936.5
37.5°	835.9	847.5	869.4	896.0	907.6
40°	796.6	810.5	833.6	864.8	877.5
42.5°	757.3	770.0	798.9	832.4	846.3
45°	716.8	731.9	761.9	800.1	813.9
47.5°	675.2	690.2	726.1	766.5	779.3
50°	633.6	648.6	689.1	731.9	746.9
52.5°	588.5	608.1	654.4	697.2	712.2
55°	548.0	566.5	613.9	662.5	678.7
57.5°	501.8	523.7	575.8	626.6	644.0
60°	459.0	482.1	537.6	589.6	607.0
62.5°	415.1	440.5	499.5	552.7	572.3
65°	367.7	398.9	461.3	515.7	535.3
67.5°	324.9	357.3	423.2	478.7	496.0
70°	276.3	315.6	382.7	438.2	457.8
72.5°	234.7	274.0	344.5	398.9	418.5
75°	190.8	233.5	304.1	358.4	375.8
77.5°	146.8	194.2	264.8	306.4	312.2
80°	105.2	154.9	219.7	244.0	252.0
82.5°	74.0	119.1	161.9	178.1	182.7
85°	40.5	78.6	101.7	108.7	108.7
87.5°	17.3	33.5	40.5	41.6	42.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)