

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: P276564

Luminaire Tested: **24CZ2-35-S-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276564
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: 24CZ2-35-S-UNV-L82765-W2A1-U-4000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3529.7 lumens
Efficiency: N/A
Efficacy: 134.1 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

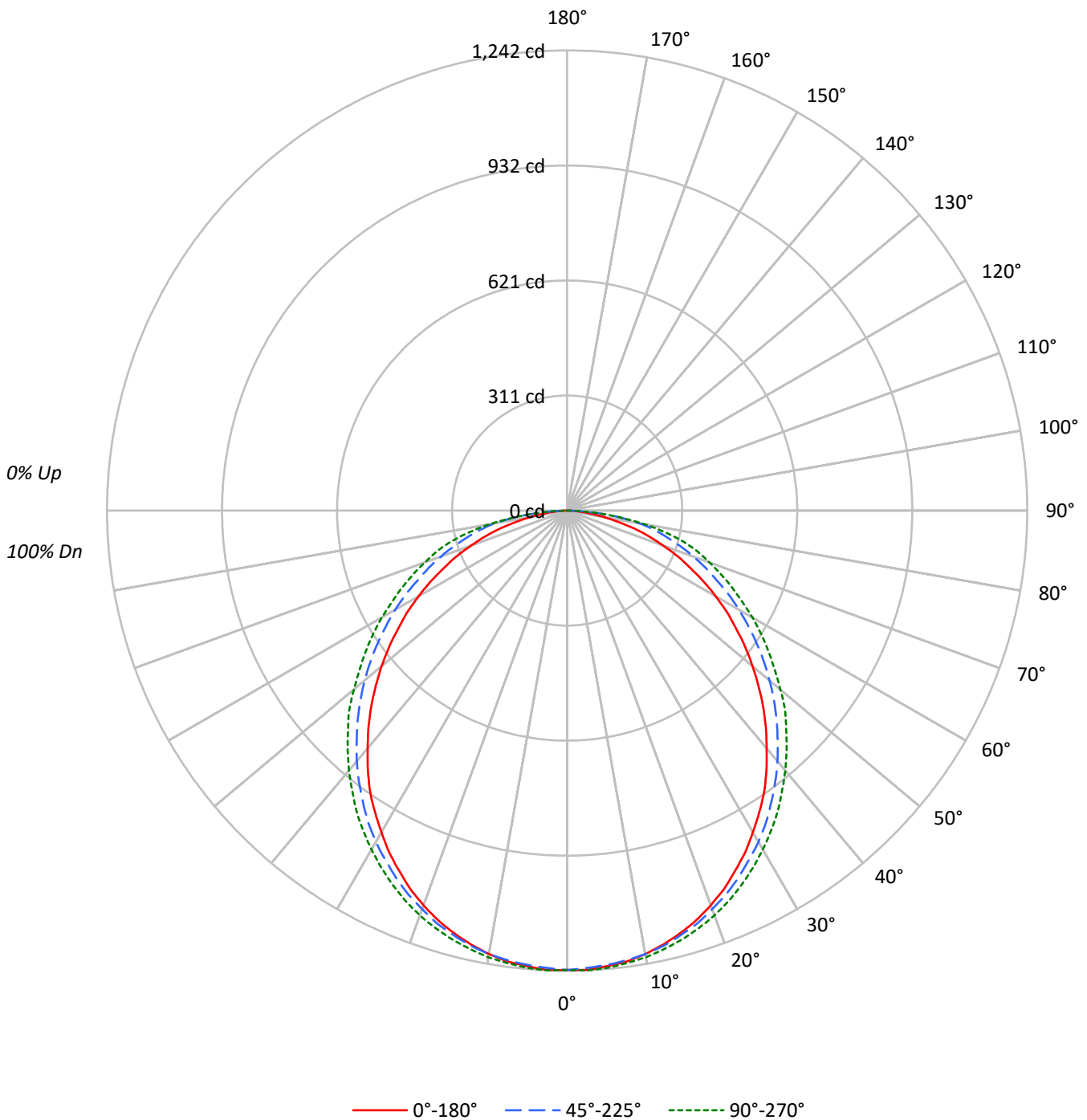
Input Watts (W): 26.319
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1668	1668	1668
5°	1667	1663	1673
10°	1660	1660	1673
15°	1645	1652	1669
20°	1623	1639	1665
25°	1593	1623	1654
30°	1557	1604	1641
35°	1523	1578	1628
40°	1471	1552	1609
45°	1423	1521	1592
50°	1368	1493	1572
55°	1307	1465	1557
60°	1246	1442	1554
65°	1167	1417	1564
70°	1081	1424	1605
75°	967	1451	1696
80°	782	1537	1659
85°	588	1351	1315



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.4	3.3
10°-20°	335.4	9.5
20°-30°	504.2	14.3
30°-40°	600.6	17.0
40°-50°	614.7	17.4
50°-60°	553.4	15.7
60°-70°	434.6	12.3
70°-80°	282.1	8.0
80°-90°	87.2	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°	957.0	27.1
0°-40°	1557.6	44.1
0°-60°	2725.8	77.2
0°-90°	3529.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3529.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1240	1240	1240	1240	1240	
5°	1234	1237	1231	1238	1239	117
15°	1181	1184	1186	1196	1198	333
25°	1073	1082	1093	1111	1114	494
35°	927	938	961	984	991	578
45°	748	766	799	830	836	577
55°	557	582	624	657	664	500
65°	367	395	445	482	491	365
75°	186	222	279	317	326	197
85°	38	71	88	85	85	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1240.0	1240.0	1240.0	1240.0	1240.0
2.5°	1241.1	1241.1	1235.5	1241.1	1242.2
5°	1234.4	1236.6	1231.0	1237.8	1238.9
7.5°	1227.7	1227.7	1224.3	1231.0	1232.1
10°	1215.3	1216.5	1215.3	1223.2	1224.3
12.5°	1199.6	1201.9	1203.0	1210.8	1212.0
15°	1180.6	1183.9	1186.2	1196.3	1198.5
17.5°	1159.3	1162.6	1168.2	1179.5	1181.7
20°	1133.5	1138.0	1144.7	1159.3	1162.6
22.5°	1105.5	1109.9	1121.2	1134.6	1140.2
25°	1072.9	1081.9	1093.1	1111.1	1114.4
27.5°	1040.4	1048.3	1062.9	1081.9	1086.4
30°	1002.3	1014.6	1032.6	1051.6	1056.1
32.5°	965.3	977.6	998.9	1019.1	1024.7
35°	927.2	938.4	960.8	984.4	991.1
37.5°	883.5	898.0	922.7	946.3	953.0
40°	837.5	855.4	883.5	908.1	916.0
42.5°	793.8	812.8	840.9	867.8	876.7
45°	747.8	765.7	799.4	829.7	836.4
47.5°	700.7	720.9	756.8	787.1	798.3
50°	653.6	674.9	713.1	744.4	751.2
52.5°	606.5	629.0	669.3	703.0	706.3
55°	557.2	581.9	624.5	657.0	663.7
57.5°	512.4	533.7	579.6	613.3	621.1
60°	463.0	486.6	535.9	567.3	577.4
62.5°	415.9	440.6	492.2	523.6	532.5
65°	366.6	394.6	445.1	482.1	491.1
67.5°	324.0	350.9	404.7	440.6	449.6
70°	274.7	305.0	362.1	399.1	408.1
72.5°	232.1	263.5	320.7	356.5	370.0
75°	186.1	222.0	279.2	317.3	326.3
77.5°	141.3	182.7	241.0	270.2	270.2
80°	100.9	144.6	198.4	211.9	214.1
82.5°	66.1	108.8	146.9	145.8	145.8
85°	38.1	70.6	87.5	85.2	85.2
87.5°	14.6	29.2	31.4	31.4	30.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)