

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: P261273

Luminaire Tested: **24CZ-LD5-35-S-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261273
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25694)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-35-S-UNV-L92765-W2A1-U-5700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (336) 90 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3383.0 lumens
Efficiency: N/A
Efficacy: 135.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

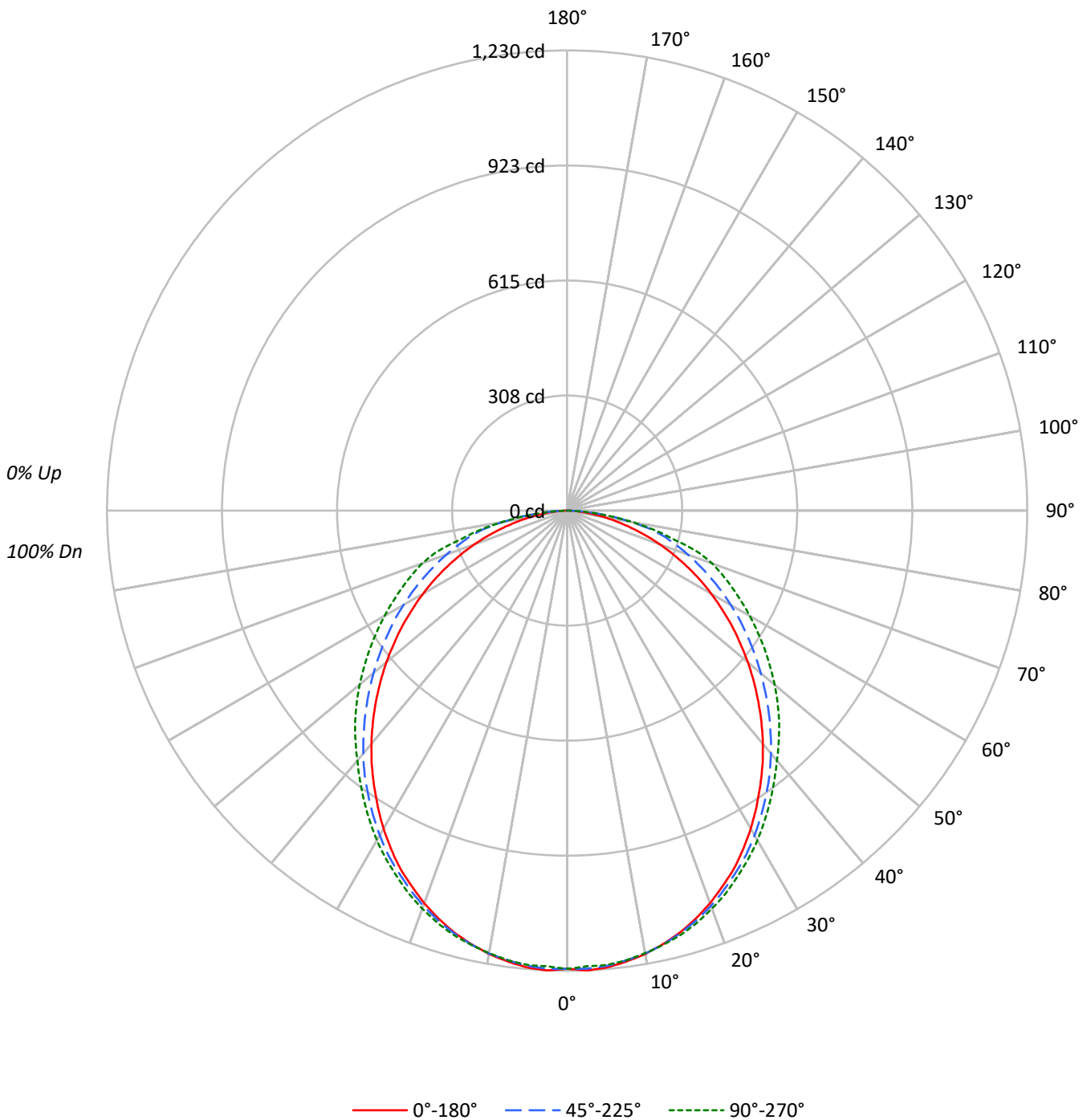
Input Watts (W): 24.924
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	50
5	76	63	53	47	73	61	53	47	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1648	1648	1648
5°	1656	1650	1647
10°	1644	1643	1641
15°	1626	1629	1635
20°	1599	1610	1621
25°	1568	1584	1601
30°	1525	1556	1581
35°	1477	1523	1555
40°	1429	1489	1532
45°	1375	1450	1525
50°	1320	1414	1515
55°	1262	1384	1510
60°	1196	1360	1518
65°	1125	1344	1548
70°	1036	1351	1621
75°	919	1398	1510
80°	768	1326	1361
85°	573	1061	973



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.8	3.4
10°-20°	329.3	9.7
20°-30°	490.8	14.5
30°-40°	577.7	17.1
40°-50°	587.1	17.4
50°-60°	527.8	15.6
60°-70°	417.0	12.3
70°-80°	264.5	7.8
80°-90°	73.0	2.2
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°	935.9	27.7
0°-40°	1513.6	44.7
0°-60°	2628.5	77.7
0°-90°	3383.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3383.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1225	1225	1225	1225	1225	
5°	1226	1216	1221	1219	1219	116
15°	1167	1162	1170	1173	1174	329
25°	1056	1055	1067	1074	1078	485
35°	899	905	928	938	947	563
45°	723	733	762	785	802	558
55°	538	552	590	628	644	481
65°	354	372	422	468	486	350
75°	177	207	269	293	290	188
85°	37	64	69	63	63	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1224.7	1224.7	1224.7	1224.7	1224.7
2.5°	1230.3	1221.3	1225.8	1223.6	1219.1
5°	1225.8	1215.7	1221.3	1219.1	1219.1
7.5°	1215.7	1207.8	1212.3	1211.2	1212.3
10°	1203.3	1195.4	1202.2	1202.2	1201.1
12.5°	1186.4	1179.7	1187.6	1187.6	1188.7
15°	1167.3	1161.7	1169.6	1172.9	1174.1
17.5°	1143.7	1138.0	1148.2	1151.5	1154.9
20°	1116.6	1114.4	1124.5	1127.9	1132.4
22.5°	1086.3	1086.3	1096.4	1100.9	1107.6
25°	1055.9	1054.7	1067.1	1073.9	1078.4
27.5°	1019.8	1021.0	1036.7	1043.5	1049.1
30°	981.6	983.8	1001.8	1009.7	1017.6
32.5°	941.0	945.5	965.8	974.8	982.7
35°	899.4	905.0	927.5	937.7	946.7
37.5°	857.7	865.6	889.3	899.4	909.5
40°	813.8	820.6	847.6	860.0	872.4
42.5°	768.8	777.8	804.8	822.9	837.5
45°	722.7	732.8	762.1	784.6	801.5
47.5°	676.5	690.0	718.2	748.6	763.2
50°	630.4	643.9	675.4	709.2	723.8
52.5°	583.1	596.6	632.6	667.5	683.3
55°	538.1	551.6	589.8	628.1	643.9
57.5°	490.8	505.4	548.2	587.6	603.3
60°	444.6	459.3	505.4	547.1	564.0
62.5°	399.6	415.4	463.8	507.7	524.6
65°	353.5	371.5	422.1	468.3	486.3
67.5°	308.4	328.7	381.6	430.0	449.1
70°	263.4	287.0	343.3	392.9	412.0
72.5°	219.5	245.4	305.1	354.6	364.7
75°	176.7	207.1	269.0	292.7	290.4
77.5°	136.2	170.0	228.5	233.0	239.8
80°	99.1	136.2	171.1	180.1	175.6
82.5°	65.3	102.4	122.7	118.2	117.1
85°	37.1	64.2	68.7	63.0	63.0
87.5°	15.8	25.9	22.5	16.9	15.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)