

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: P260611

Luminaire Tested: **24CZ-LD5-35SE-UNV-L83050-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260611
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25697)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-35SE-UNV-L83050-W2A1-U-5000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3770.0 lumens
Efficiency: N/A
Efficacy: 138.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.25 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

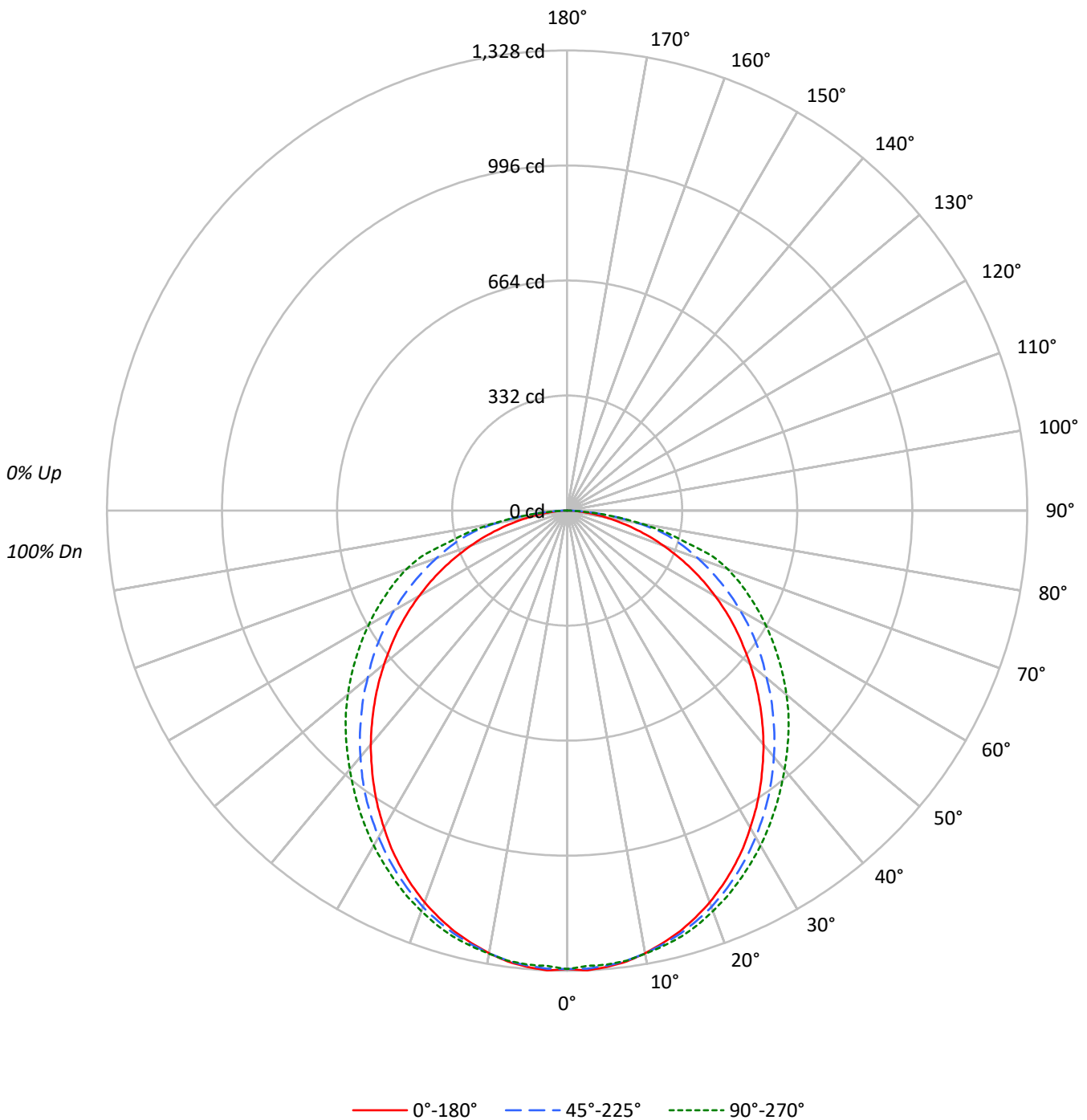
Input Watts (W): 27.31596
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	95	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	32
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	31	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1780	1780	1780
5°	1785	1780	1776
10°	1772	1772	1774
15°	1751	1760	1773
20°	1723	1743	1761
25°	1686	1719	1748
30°	1643	1691	1735
35°	1597	1662	1722
40°	1548	1630	1714
45°	1496	1599	1719
50°	1443	1572	1729
55°	1390	1563	1747
60°	1327	1553	1782
65°	1258	1553	1841
70°	1163	1579	1940
75°	1040	1651	1845
80°	870	1580	1690
85°	658	1215	1156



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.0	3.3
10°-20°	355.8	9.4
20°-30°	532.0	14.1
30°-40°	631.1	16.7
40°-50°	649.5	17.2
50°-60°	595.9	15.8
60°-70°	481.8	12.8
70°-80°	312.7	8.3
80°-90°	86.2	2.3
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°	1012.8	26.9
0°-40°	1643.9	43.6
0°-60°	2889.3	76.6
0°-90°	3770.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3770.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1323	1323	1323	1323	1323	
5°	1322	1313	1318	1317	1315	125
15°	1257	1252	1264	1269	1273	354
25°	1136	1137	1158	1168	1177	523
35°	972	980	1012	1034	1048	608
45°	786	799	840	880	904	607
55°	592	611	666	720	745	529
65°	395	418	488	552	578	390
75°	200	238	318	355	355	213
85°	43	72	79	76	75	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1323.1	1323.1	1323.1	1323.1	1323.1
2.5°	1328.2	1317.9	1323.1	1321.8	1315.3
5°	1321.8	1312.7	1317.9	1316.6	1315.3
7.5°	1312.7	1303.7	1310.2	1308.9	1310.2
10°	1297.3	1289.5	1297.3	1298.5	1298.5
12.5°	1277.9	1271.4	1281.8	1284.3	1286.9
15°	1257.2	1252.1	1263.7	1268.9	1272.7
17.5°	1231.4	1227.6	1241.8	1248.2	1253.4
20°	1203.0	1201.7	1217.2	1223.7	1230.1
22.5°	1170.8	1170.8	1188.8	1196.6	1205.6
25°	1135.9	1137.2	1157.9	1168.2	1177.2
27.5°	1098.5	1099.8	1124.3	1137.2	1147.5
30°	1057.2	1062.3	1088.1	1104.9	1116.5
32.5°	1015.9	1022.3	1050.7	1070.1	1083.0
35°	972.0	979.7	1012.0	1033.9	1048.1
37.5°	926.8	935.8	970.7	995.2	1012.0
40°	881.6	891.9	928.1	956.5	975.8
42.5°	833.9	845.5	885.5	919.1	939.7
45°	786.1	799.0	840.3	880.3	903.6
47.5°	738.3	753.8	797.7	841.6	866.1
50°	689.3	704.8	751.2	801.6	826.1
52.5°	640.2	658.3	709.9	761.6	786.1
55°	592.5	610.6	666.1	720.3	744.8
57.5°	543.4	561.5	622.2	679.0	703.5
60°	493.1	513.7	577.0	635.1	662.2
62.5°	444.0	466.0	533.1	595.1	620.9
65°	395.0	418.2	487.9	552.5	578.3
67.5°	344.6	371.8	444.0	509.9	537.0
70°	295.6	325.3	401.4	467.3	493.1
72.5°	247.8	280.1	358.8	426.0	441.5
75°	200.1	237.5	317.5	355.0	355.0
77.5°	154.9	196.2	271.1	285.3	293.0
80°	112.3	157.5	203.9	220.7	218.1
82.5°	74.9	120.0	145.9	145.9	142.0
85°	42.6	72.3	78.7	76.2	74.9
87.5°	18.1	27.1	24.5	19.4	16.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)