

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: P260561

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260561
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-LD5-35-UNV-L83050-W2A1-U-5000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3730.0 lumens
Efficiency: N/A
Efficacy: 147.1 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

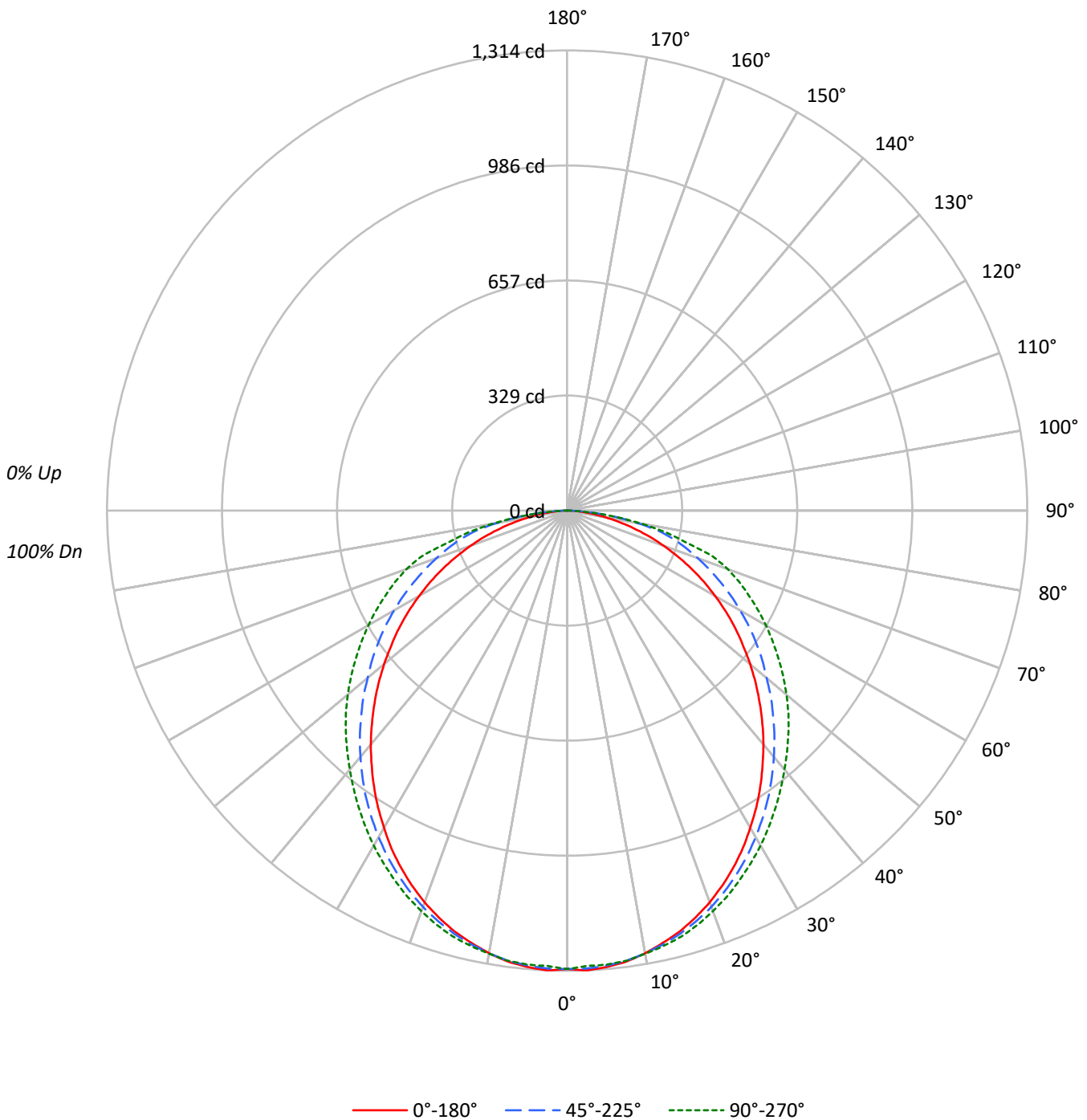
Input Watts (W): 25.36482
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1761	1761	1761
5°	1766	1761	1758
10°	1754	1754	1755
15°	1733	1742	1754
20°	1704	1724	1743
25°	1669	1701	1729
30°	1625	1673	1716
35°	1580	1645	1703
40°	1532	1613	1696
45°	1480	1582	1701
50°	1428	1556	1711
55°	1375	1546	1729
60°	1313	1536	1763
65°	1244	1537	1821
70°	1151	1563	1919
75°	1029	1633	1826
80°	861	1564	1672
85°	650	1203	1144



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.7	3.3
10°-20°	352.1	9.4
20°-30°	526.3	14.1
30°-40°	624.4	16.7
40°-50°	642.6	17.2
50°-60°	589.6	15.8
60°-70°	476.7	12.8
70°-80°	309.4	8.3
80°-90°	85.3	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°	1002.1	26.9
0°-40°	1626.5	43.6
0°-60°	2858.7	76.6
0°-90°	3730.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3730.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1309	1309	1309	1309	1309	
5°	1308	1299	1304	1303	1301	124
15°	1244	1239	1250	1255	1259	350
25°	1124	1125	1146	1156	1165	517
35°	962	969	1001	1023	1037	601
45°	778	790	831	871	894	600
55°	586	604	659	713	737	524
65°	391	414	483	547	572	386
75°	198	235	314	351	351	210
85°	42	72	78	75	74	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1309.0	1309.0	1309.0	1309.0	1309.0
2.5°	1314.1	1303.9	1309.0	1307.8	1301.4
5°	1307.8	1298.8	1303.9	1302.7	1301.4
7.5°	1298.8	1289.9	1296.3	1295.0	1296.3
10°	1283.5	1275.8	1283.5	1284.8	1284.8
12.5°	1264.3	1258.0	1268.2	1270.7	1273.3
15°	1243.9	1238.8	1250.3	1255.4	1259.2
17.5°	1218.4	1214.5	1228.6	1235.0	1240.1
20°	1190.3	1189.0	1204.3	1210.7	1217.1
22.5°	1158.3	1158.3	1176.2	1183.9	1192.8
25°	1123.9	1125.1	1145.6	1155.8	1164.7
27.5°	1086.8	1088.1	1112.4	1125.1	1135.3
30°	1046.0	1051.1	1076.6	1093.2	1104.7
32.5°	1005.1	1011.5	1039.6	1058.7	1071.5
35°	961.7	969.3	1001.3	1023.0	1037.0
37.5°	917.0	925.9	960.4	984.7	1001.3
40°	872.3	882.5	918.2	946.3	965.5
42.5°	825.0	836.5	876.1	909.3	929.7
45°	777.8	790.5	831.4	871.0	894.0
47.5°	730.5	745.8	789.3	832.7	856.9
50°	682.0	697.3	743.3	793.1	817.3
52.5°	633.4	651.3	702.4	753.5	777.8
55°	586.2	604.1	659.0	712.6	736.9
57.5°	537.7	555.5	615.6	671.8	696.0
60°	487.9	508.3	570.9	628.3	655.2
62.5°	439.3	461.0	527.4	588.7	614.3
65°	390.8	413.8	482.7	546.6	572.1
67.5°	341.0	367.8	439.3	504.5	531.3
70°	292.5	321.8	397.2	462.3	487.9
72.5°	245.2	277.1	355.0	421.4	436.8
75°	198.0	235.0	314.2	351.2	351.2
77.5°	153.3	194.1	268.2	282.2	289.9
80°	111.1	155.8	201.8	218.4	215.8
82.5°	74.1	118.8	144.3	144.3	140.5
85°	42.1	71.5	77.9	75.3	74.1
87.5°	17.9	26.8	24.3	19.2	16.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)