

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: P260978

Luminaire Tested: **24CZ-LD5-35-S-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260978
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-L83050-W2A1-U-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (336) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3589.0 lumens
Efficiency: N/A
Efficacy: 148.4 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

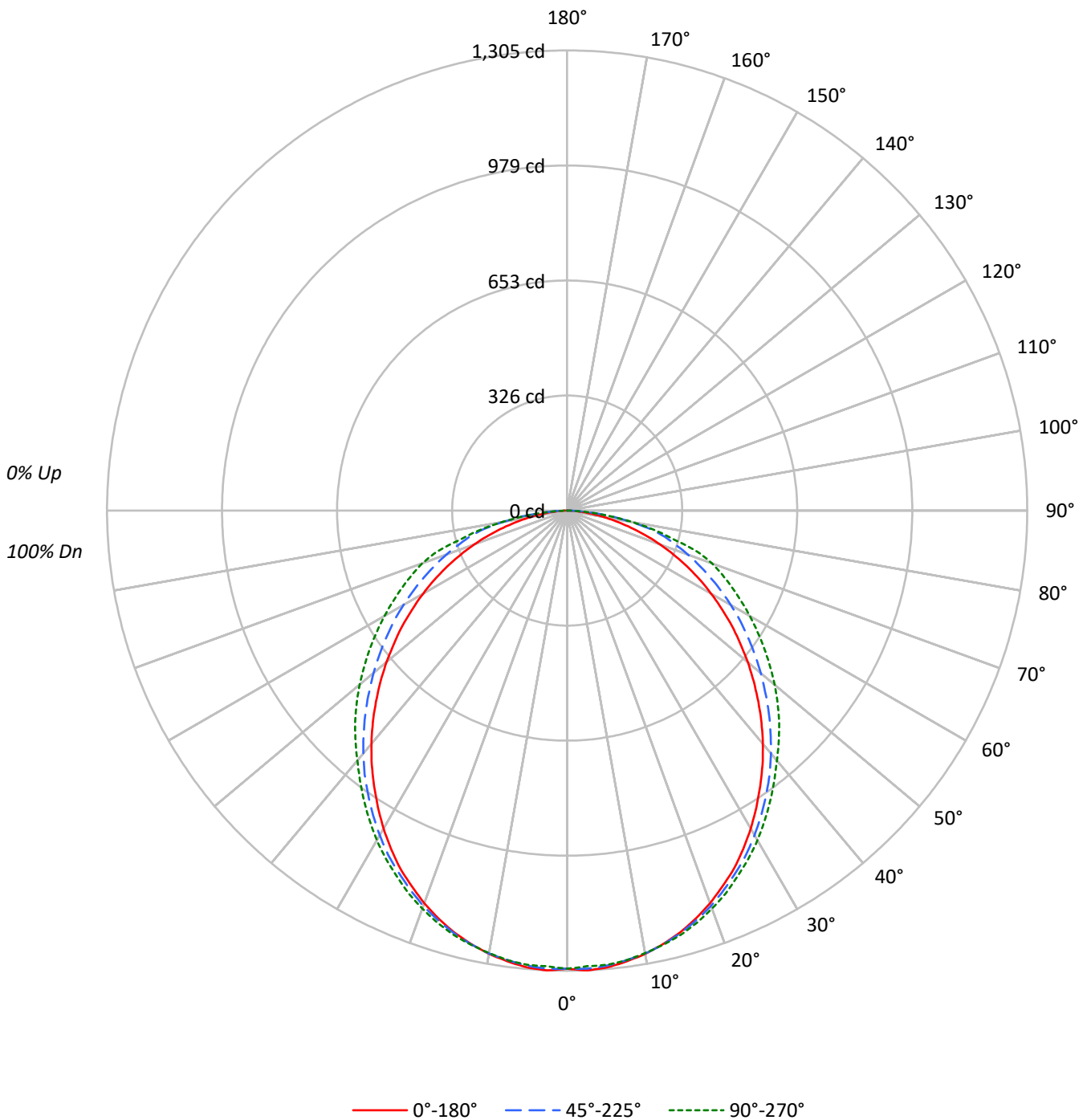
Input Watts (W): 24.18
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1748	1748	1748
5°	1756	1750	1747
10°	1744	1743	1741
15°	1725	1728	1735
20°	1696	1708	1720
25°	1663	1681	1698
30°	1618	1651	1677
35°	1567	1616	1650
40°	1516	1579	1626
45°	1459	1538	1618
50°	1400	1500	1607
55°	1339	1468	1602
60°	1269	1443	1610
65°	1194	1426	1642
70°	1099	1433	1720
75°	975	1484	1602
80°	814	1406	1444
85°	608	1124	1033



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.8	3.4
10°-20°	349.4	9.7
20°-30°	520.6	14.5
30°-40°	612.9	17.1
40°-50°	622.8	17.4
50°-60°	560.0	15.6
60°-70°	442.4	12.3
70°-80°	280.6	7.8
80°-90°	77.5	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°	992.9	27.7
0°-40°	1605.7	44.7
0°-60°	2788.5	77.7
0°-90°	3589.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3589.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1299	1299	1299	1299	1299	
5°	1300	1290	1296	1293	1293	123
15°	1238	1232	1241	1244	1246	349
25°	1120	1119	1132	1139	1144	515
35°	954	960	984	995	1004	597
45°	767	777	808	832	850	592
55°	571	585	626	666	683	510
65°	375	394	448	497	516	371
75°	188	220	285	310	308	200
85°	39	68	73	67	67	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1299.3	1299.3	1299.3	1299.3	1299.3
2.5°	1305.3	1295.7	1300.5	1298.1	1293.3
5°	1300.5	1289.7	1295.7	1293.3	1293.3
7.5°	1289.7	1281.4	1286.1	1285.0	1286.1
10°	1276.6	1268.2	1275.4	1275.4	1274.2
12.5°	1258.7	1251.5	1259.9	1259.9	1261.1
15°	1238.4	1232.4	1240.8	1244.4	1245.5
17.5°	1213.3	1207.3	1218.1	1221.7	1225.2
20°	1184.6	1182.3	1193.0	1196.6	1201.4
22.5°	1152.4	1152.4	1163.1	1167.9	1175.1
25°	1120.2	1119.0	1132.1	1139.3	1144.0
27.5°	1081.9	1083.1	1099.9	1107.0	1113.0
30°	1041.3	1043.7	1062.8	1071.2	1079.6
32.5°	998.3	1003.1	1024.6	1034.2	1042.5
35°	954.2	960.1	984.0	994.8	1004.3
37.5°	910.0	918.3	943.4	954.2	964.9
40°	863.4	870.6	899.2	912.4	925.5
42.5°	815.6	825.2	853.8	873.0	888.5
45°	766.7	777.4	808.5	832.4	850.3
47.5°	717.7	732.0	761.9	794.1	809.7
50°	668.7	683.1	716.5	752.3	767.9
52.5°	618.6	632.9	671.1	708.2	724.9
55°	570.8	585.2	625.8	666.4	683.1
57.5°	520.7	536.2	581.6	623.4	640.1
60°	471.7	487.2	536.2	580.4	598.3
62.5°	423.9	440.7	492.0	538.6	556.5
65°	375.0	394.1	447.8	496.8	515.9
67.5°	327.2	348.7	404.8	456.2	476.5
70°	279.4	304.5	364.2	416.8	437.1
72.5°	232.9	260.3	323.6	376.2	386.9
75°	187.5	219.7	285.4	310.5	308.1
77.5°	144.5	180.3	242.4	247.2	254.4
80°	105.1	144.5	181.5	191.1	186.3
82.5°	69.3	108.7	130.2	125.4	124.2
85°	39.4	68.1	72.8	66.9	66.9
87.5°	16.7	27.5	23.9	17.9	16.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)