

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: P260805

Luminaire Tested: **24CZ-LD5-35SE-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260805
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-L82765-W2A1-U-4500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3613.0 lumens
Efficiency: N/A
Efficacy: 136.3 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

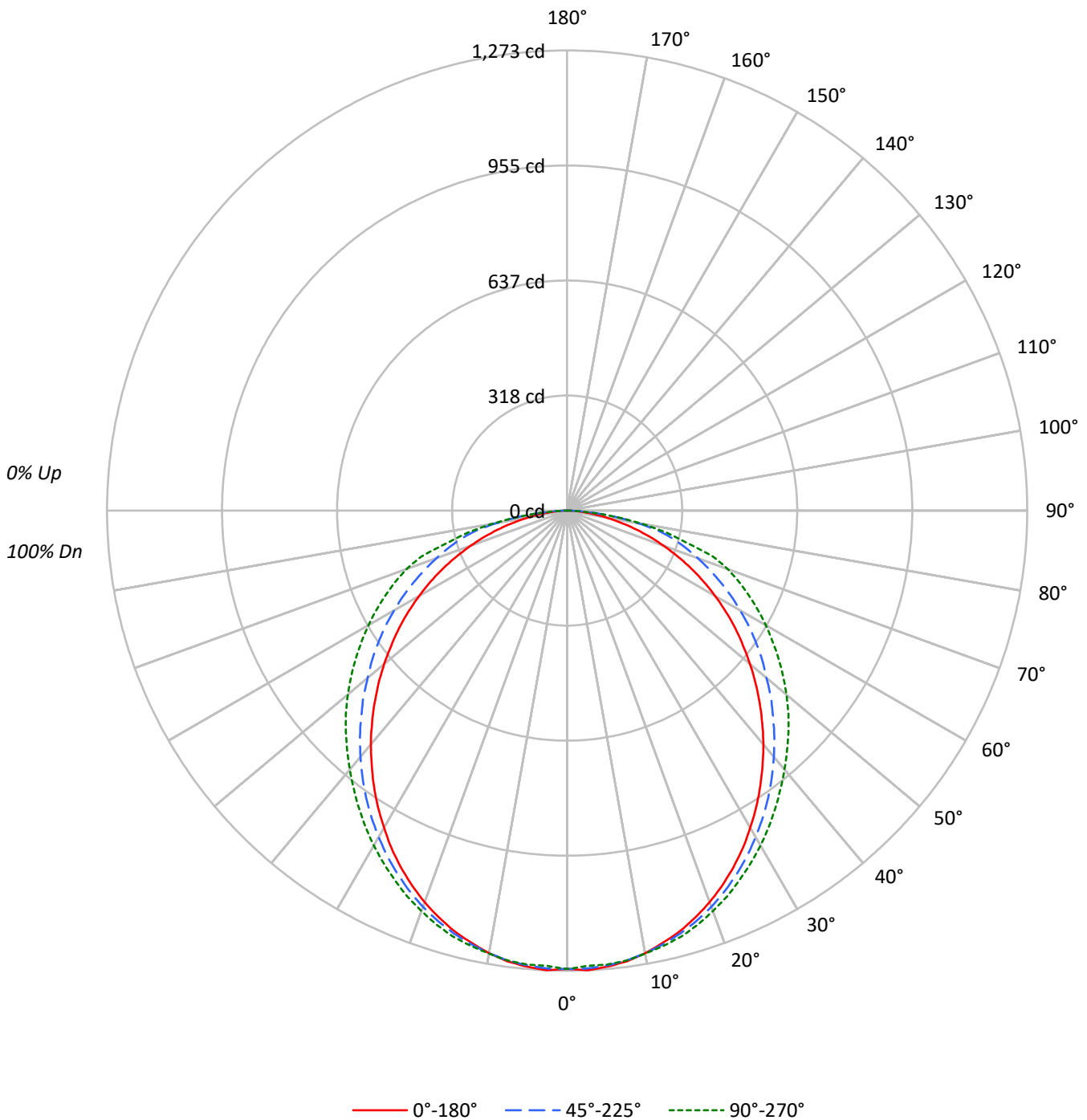
Input Watts (W): 26.505
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1706	1706	1706
5°	1711	1706	1703
10°	1699	1699	1700
15°	1678	1687	1699
20°	1651	1670	1688
25°	1616	1647	1675
30°	1574	1620	1662
35°	1530	1593	1650
40°	1484	1562	1643
45°	1434	1532	1648
50°	1383	1507	1657
55°	1332	1497	1674
60°	1272	1488	1708
65°	1205	1489	1764
70°	1114	1513	1859
75°	997	1582	1769
80°	834	1515	1620
85°	630	1166	1107



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.8	3.3
10°-20°	341.0	9.4
20°-30°	509.8	14.1
30°-40°	604.8	16.7
40°-50°	622.5	17.2
50°-60°	571.1	15.8
60°-70°	461.7	12.8
70°-80°	299.6	8.3
80°-90°	82.6	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°	970.6	26.9
0°-40°	1575.4	43.6
0°-60°	2769.0	76.6
0°-90°	3613.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3613.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1268	1268	1268	1268	1268	
5°	1267	1258	1263	1262	1261	120
15°	1205	1200	1211	1216	1220	339
25°	1089	1090	1110	1120	1128	501
35°	932	939	970	991	1004	583
45°	753	766	805	844	866	581
55°	568	585	638	690	714	507
65°	378	401	468	530	554	374
75°	192	228	304	340	340	204
85°	41	69	76	73	72	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1268.0	1268.0	1268.0	1268.0	1268.0
2.5°	1272.9	1263.0	1268.0	1266.7	1260.6
5°	1266.7	1258.1	1263.0	1261.8	1260.6
7.5°	1258.1	1249.4	1255.6	1254.4	1255.6
10°	1243.2	1235.8	1243.2	1244.5	1244.5
12.5°	1224.7	1218.5	1228.4	1230.9	1233.3
15°	1204.9	1199.9	1211.1	1216.0	1219.7
17.5°	1180.1	1176.4	1190.0	1196.2	1201.2
20°	1152.9	1151.7	1166.5	1172.7	1178.9
22.5°	1122.0	1122.0	1139.3	1146.7	1155.4
25°	1088.6	1089.8	1109.6	1119.5	1128.2
27.5°	1052.7	1054.0	1077.5	1089.8	1099.7
30°	1013.1	1018.1	1042.8	1058.9	1070.0
32.5°	973.6	979.7	1007.0	1025.5	1037.9
35°	931.5	938.9	969.8	990.9	1004.5
37.5°	888.2	896.9	930.3	953.8	969.8
40°	844.9	854.8	889.4	916.7	935.2
42.5°	799.1	810.3	848.6	880.8	900.6
45°	753.4	765.7	805.3	843.7	865.9
47.5°	707.6	722.4	764.5	806.6	830.1
50°	660.6	675.4	720.0	768.2	791.7
52.5°	613.6	630.9	680.4	729.9	753.4
55°	567.8	585.1	638.3	690.3	713.8
57.5°	520.8	538.1	596.3	650.7	674.2
60°	472.6	492.3	553.0	608.6	634.6
62.5°	425.5	446.6	510.9	570.3	595.0
65°	378.5	400.8	467.6	529.5	554.2
67.5°	330.3	356.3	425.5	488.6	514.6
70°	283.3	311.7	384.7	447.8	472.6
72.5°	237.5	268.4	343.9	408.2	423.1
75°	191.7	227.6	304.3	340.2	340.2
77.5°	148.4	188.0	259.8	273.4	280.8
80°	107.6	150.9	195.5	211.5	209.1
82.5°	71.7	115.0	139.8	139.8	136.1
85°	40.8	69.3	75.5	73.0	71.7
87.5°	17.3	26.0	23.5	18.6	16.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)