

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: P261270

Luminaire Tested: **24CZ-LD5-35-S-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261270
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-4500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (336) 90 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3252.0 lumens
Efficiency: N/A
Efficacy: 132.0 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

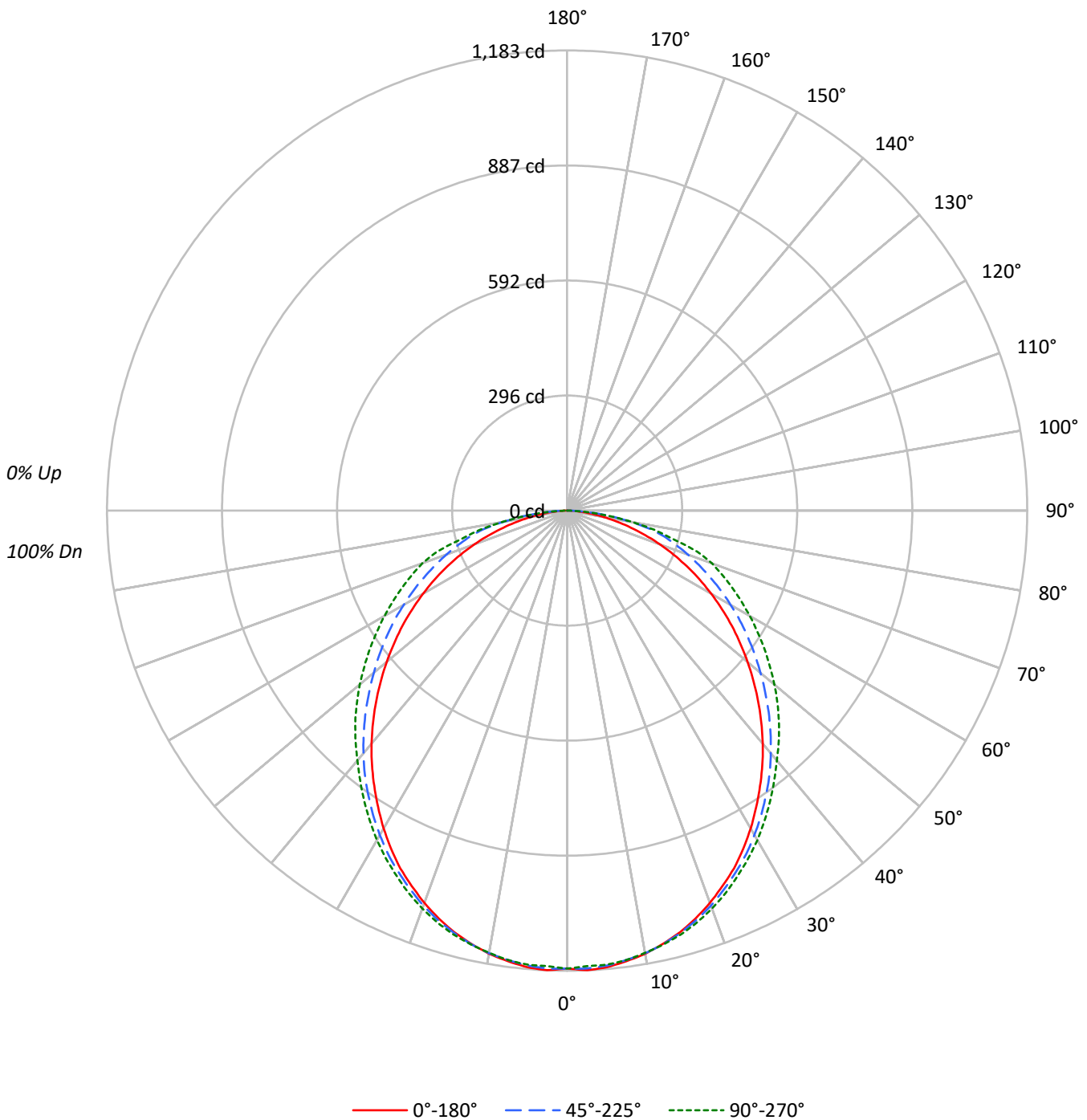
Input Watts (W): 24.645
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1584	1584	1584
5°	1592	1586	1583
10°	1580	1579	1577
15°	1563	1566	1572
20°	1537	1548	1559
25°	1507	1523	1539
30°	1466	1496	1520
35°	1420	1464	1495
40°	1374	1431	1473
45°	1322	1394	1466
50°	1268	1359	1456
55°	1213	1330	1452
60°	1150	1307	1459
65°	1082	1292	1488
70°	996	1298	1558
75°	883	1344	1451
80°	738	1275	1308
85°	551	1019	936



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.3	3.4
10°-20°	316.6	9.7
20°-30°	471.8	14.5
30°-40°	555.3	17.1
40°-50°	564.3	17.4
50°-60°	507.4	15.6
60°-70°	400.8	12.3
70°-80°	254.3	7.8
80°-90°	70.2	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°	899.6	27.7
0°-40°	1455.0	44.7
0°-60°	2526.7	77.7
0°-90°	3252.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3252.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1177	1177	1177	1177	1177	
5°	1178	1169	1174	1172	1172	112
15°	1122	1117	1124	1128	1129	316
25°	1015	1014	1026	1032	1037	467
35°	865	870	892	901	910	541
45°	695	704	733	754	770	536
55°	517	530	567	604	619	462
65°	340	357	406	450	468	337
75°	170	199	259	281	279	181
85°	36	62	66	61	61	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1177.3	1177.3	1177.3	1177.3	1177.3
2.5°	1182.7	1174.0	1178.4	1176.2	1171.9
5°	1178.4	1168.6	1174.0	1171.9	1171.9
7.5°	1168.6	1161.1	1165.4	1164.3	1165.4
10°	1156.7	1149.2	1155.6	1155.6	1154.6
12.5°	1140.5	1134.0	1141.6	1141.6	1142.7
15°	1122.1	1116.7	1124.3	1127.5	1128.6
17.5°	1099.4	1094.0	1103.7	1106.9	1110.2
20°	1073.4	1071.2	1081.0	1084.2	1088.6
22.5°	1044.2	1044.2	1053.9	1058.3	1064.7
25°	1015.0	1013.9	1025.8	1032.3	1036.6
27.5°	980.3	981.4	996.6	1003.1	1008.5
30°	943.6	945.7	963.0	970.6	978.2
32.5°	904.6	908.9	928.4	937.1	944.6
35°	864.6	870.0	891.6	901.4	910.0
37.5°	824.5	832.1	854.8	864.6	874.3
40°	782.3	788.8	814.8	826.7	838.6
42.5°	739.0	747.7	773.7	791.0	805.1
45°	694.7	704.4	732.6	754.2	770.4
47.5°	650.3	663.3	690.4	719.6	733.6
50°	606.0	618.9	649.2	681.7	695.8
52.5°	560.5	573.5	608.1	641.7	656.8
55°	517.2	530.2	567.0	603.8	618.9
57.5°	471.8	485.8	527.0	564.8	580.0
60°	427.4	441.5	485.8	525.9	542.1
62.5°	384.1	399.3	445.8	488.0	504.2
65°	339.8	357.1	405.8	450.1	467.5
67.5°	296.5	316.0	366.8	413.3	431.7
70°	253.2	275.9	330.0	377.6	396.0
72.5°	211.0	235.9	293.2	340.8	350.6
75°	169.9	199.1	258.6	281.3	279.2
77.5°	130.9	163.4	219.7	224.0	230.5
80°	95.2	130.9	164.5	173.1	168.8
82.5°	62.8	98.5	117.9	113.6	112.5
85°	35.7	61.7	66.0	60.6	60.6
87.5°	15.1	24.9	21.6	16.2	15.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)