

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: P260713

Luminaire Tested: **24CZ-LD5-35-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260713
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-L82765-W2A1-U-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3437.0 lumens
Efficiency: N/A
Efficacy: 141.6 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

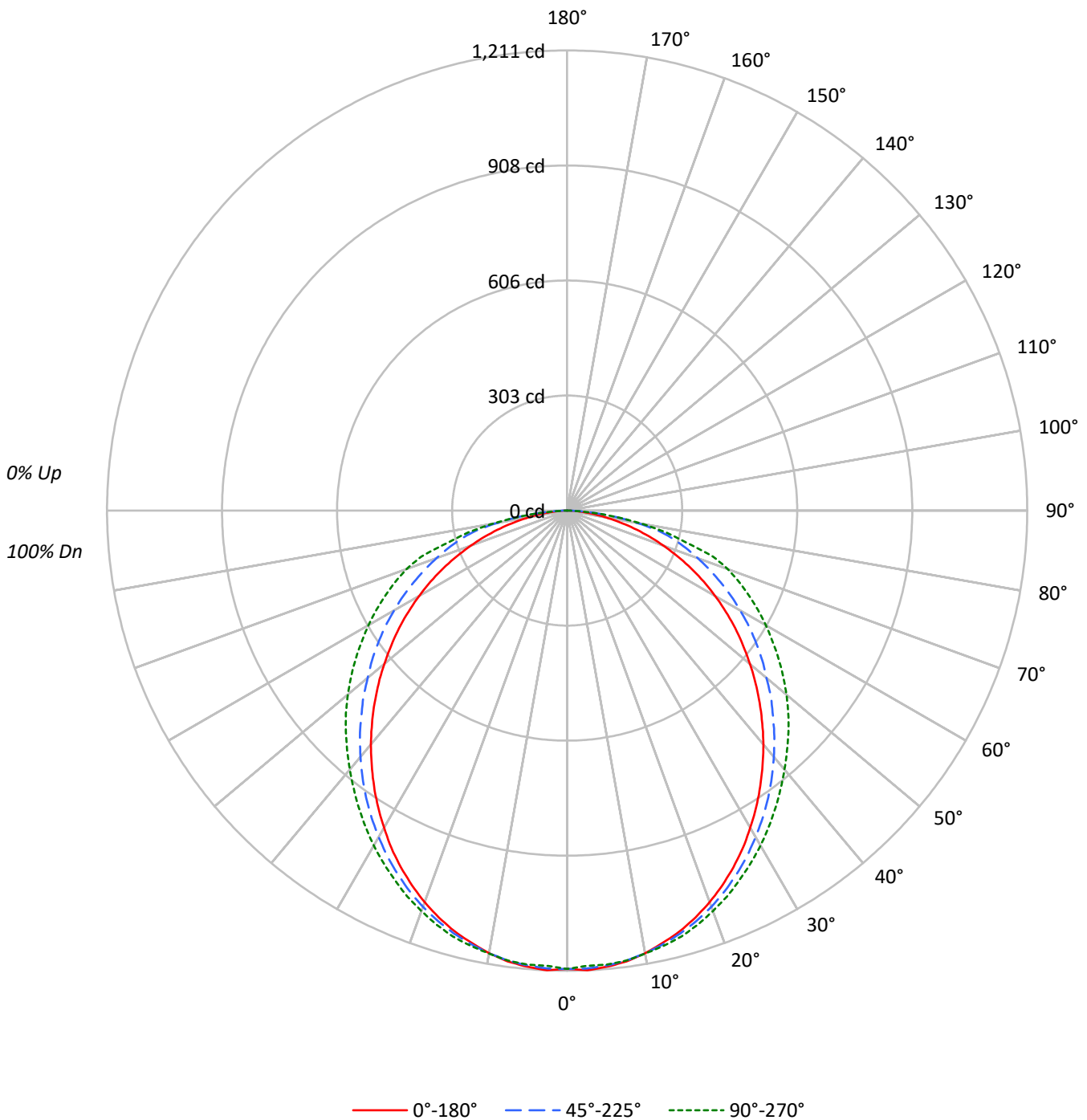
Input Watts (W): 24.273
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1623	1623	1623
5°	1628	1623	1620
10°	1616	1616	1617
15°	1597	1605	1616
20°	1570	1589	1606
25°	1537	1567	1593
30°	1497	1541	1581
35°	1455	1515	1570
40°	1412	1486	1563
45°	1364	1458	1568
50°	1315	1434	1576
55°	1267	1424	1593
60°	1210	1415	1625
65°	1146	1416	1678
70°	1060	1440	1768
75°	948	1505	1682
80°	793	1440	1541
85°	599	1108	1054



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.0	3.3
10°-20°	324.4	9.4
20°-30°	485.0	14.1
30°-40°	575.3	16.7
40°-50°	592.2	17.2
50°-60°	543.2	15.8
60°-70°	439.2	12.8
70°-80°	285.1	8.3
80°-90°	78.6	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°	923.4	26.9
0°-40°	1498.7	43.6
0°-60°	2634.1	76.6
0°-90°	3437.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3437.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1206	1206	1206	1206	1206	
5°	1205	1197	1202	1200	1199	114
15°	1146	1142	1152	1157	1160	323
25°	1036	1037	1056	1065	1073	477
35°	886	893	923	943	956	554
45°	717	728	766	803	824	553
55°	540	557	607	657	679	483
65°	360	381	445	504	527	356
75°	182	216	290	324	324	194
85°	39	66	72	69	68	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1206.2	1206.2	1206.2	1206.2	1206.2
2.5°	1210.9	1201.5	1206.2	1205.0	1199.1
5°	1205.0	1196.8	1201.5	1200.3	1199.1
7.5°	1196.8	1188.6	1194.4	1193.3	1194.4
10°	1182.7	1175.6	1182.7	1183.8	1183.8
12.5°	1165.0	1159.1	1168.6	1170.9	1173.3
15°	1146.2	1141.5	1152.1	1156.8	1160.3
17.5°	1122.7	1119.1	1132.1	1138.0	1142.7
20°	1096.8	1095.6	1109.7	1115.6	1121.5
22.5°	1067.3	1067.3	1083.8	1090.9	1099.1
25°	1035.6	1036.8	1055.6	1065.0	1073.2
27.5°	1001.4	1002.6	1025.0	1036.8	1046.2
30°	963.8	968.5	992.0	1007.3	1017.9
32.5°	926.1	932.0	957.9	975.6	987.3
35°	886.1	893.2	922.6	942.6	955.6
37.5°	844.9	853.2	884.9	907.3	922.6
40°	803.7	813.2	846.1	872.0	889.7
42.5°	760.2	770.8	807.3	837.9	856.7
45°	716.7	728.4	766.1	802.6	823.8
47.5°	673.1	687.2	727.3	767.3	789.6
50°	628.4	642.5	684.9	730.8	753.1
52.5°	583.7	600.2	647.2	694.3	716.7
55°	540.1	556.6	607.2	656.6	679.0
57.5°	495.4	511.9	567.2	619.0	641.3
60°	449.5	468.4	526.0	579.0	603.7
62.5°	404.8	424.8	486.0	542.5	566.0
65°	360.1	381.3	444.8	503.7	527.2
67.5°	314.2	338.9	404.8	464.8	489.5
70°	269.5	296.6	366.0	426.0	449.5
72.5°	225.9	255.4	327.1	388.3	402.5
75°	182.4	216.5	289.5	323.6	323.6
77.5°	141.2	178.9	247.1	260.1	267.1
80°	102.4	143.6	185.9	201.2	198.9
82.5°	68.3	109.4	133.0	133.0	129.4
85°	38.8	65.9	71.8	69.4	68.3
87.5°	16.5	24.7	22.4	17.7	15.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)