

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: P261133

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261133
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-L82765-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: 3506.0 lumens
Efficiency: N/A
Efficacy: 144.4 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

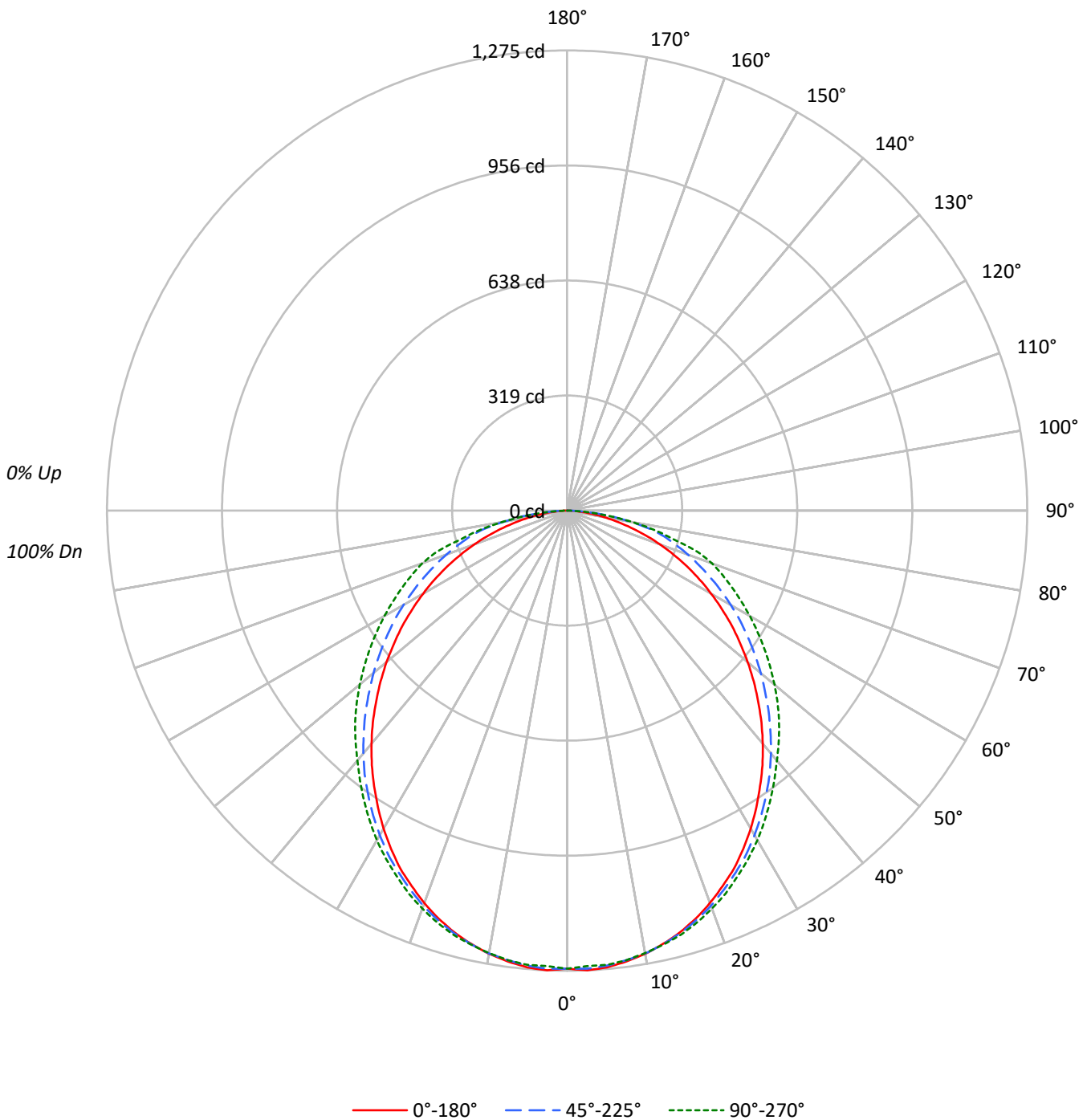
Input Watts (W): 24.273
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83					83			
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69					69			
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58					58			
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	50					50			
5	76	63	53	47	73	61	53	47	59	52	46	57	51	45	55	50	45	43					43			
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38					38			
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33					33			
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30					30			
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27					27			
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1708	1708	1708
5°	1716	1709	1706
10°	1704	1702	1701
15°	1685	1688	1695
20°	1657	1669	1680
25°	1624	1642	1659
30°	1581	1613	1638
35°	1531	1579	1611
40°	1481	1543	1588
45°	1425	1503	1580
50°	1367	1465	1570
55°	1308	1434	1565
60°	1240	1410	1573
65°	1166	1393	1605
70°	1074	1400	1680
75°	952	1449	1565
80°	796	1374	1410
85°	594	1099	1008



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.0	3.4
10°-20°	341.3	9.7
20°-30°	508.6	14.5
30°-40°	598.7	17.1
40°-50°	608.4	17.4
50°-60°	547.0	15.6
60°-70°	432.2	12.3
70°-80°	274.2	7.8
80°-90°	75.7	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°	969.9	27.7
0°-40°	1568.6	44.7
0°-60°	2724.0	77.7
0°-90°	3506.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3506.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1269	1269	1269	1269	1269	
5°	1270	1260	1266	1263	1263	120
15°	1210	1204	1212	1216	1217	341
25°	1094	1093	1106	1113	1118	503
35°	932	938	961	972	981	583
45°	749	759	790	813	831	578
55°	558	572	611	651	667	498
65°	366	385	438	485	504	363
75°	183	215	279	303	301	195
85°	38	66	71	65	65	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1269.2	1269.2	1269.2	1269.2	1269.2
2.5°	1275.1	1265.7	1270.4	1268.1	1263.4
5°	1270.4	1259.9	1265.7	1263.4	1263.4
7.5°	1259.9	1251.7	1256.4	1255.2	1256.4
10°	1247.1	1238.9	1245.9	1245.9	1244.7
12.5°	1229.6	1222.6	1230.7	1230.7	1231.9
15°	1209.7	1203.9	1212.1	1215.6	1216.7
17.5°	1185.2	1179.4	1189.9	1193.4	1196.9
20°	1157.2	1154.9	1165.4	1168.9	1173.6
22.5°	1125.7	1125.7	1136.2	1140.9	1147.9
25°	1094.2	1093.1	1105.9	1112.9	1117.6
27.5°	1056.9	1058.1	1074.4	1081.4	1087.3
30°	1017.3	1019.6	1038.3	1046.4	1054.6
32.5°	975.3	979.9	1000.9	1010.3	1018.4
35°	932.1	937.9	961.3	971.8	981.1
37.5°	888.9	897.1	921.6	932.1	942.6
40°	843.4	850.4	878.4	891.3	904.1
42.5°	796.8	806.1	834.1	852.8	867.9
45°	748.9	759.4	789.8	813.1	830.6
47.5°	701.1	715.1	744.3	775.8	790.9
50°	653.3	667.3	699.9	734.9	750.1
52.5°	604.3	618.3	655.6	691.8	708.1
55°	557.6	571.6	611.3	651.0	667.3
57.5°	508.6	523.8	568.1	609.0	625.3
60°	460.8	476.0	523.8	567.0	584.5
62.5°	414.1	430.5	480.6	526.1	543.6
65°	366.3	385.0	437.5	485.3	504.0
67.5°	319.6	340.6	395.5	445.6	465.5
70°	273.0	297.5	355.8	407.1	427.0
72.5°	227.5	254.3	316.1	367.5	378.0
75°	183.2	214.7	278.8	303.3	301.0
77.5°	141.2	176.2	236.8	241.5	248.5
80°	102.7	141.2	177.3	186.7	182.0
82.5°	67.7	106.2	127.2	122.5	121.3
85°	38.5	66.5	71.2	65.3	65.3
87.5°	16.3	26.8	23.3	17.5	16.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)