

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: P261223

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261223
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-LD5-35SE-S-UNV-L82765-W2A1-U-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3543.0 lumens
Efficiency: N/A
Efficacy: 135.6 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

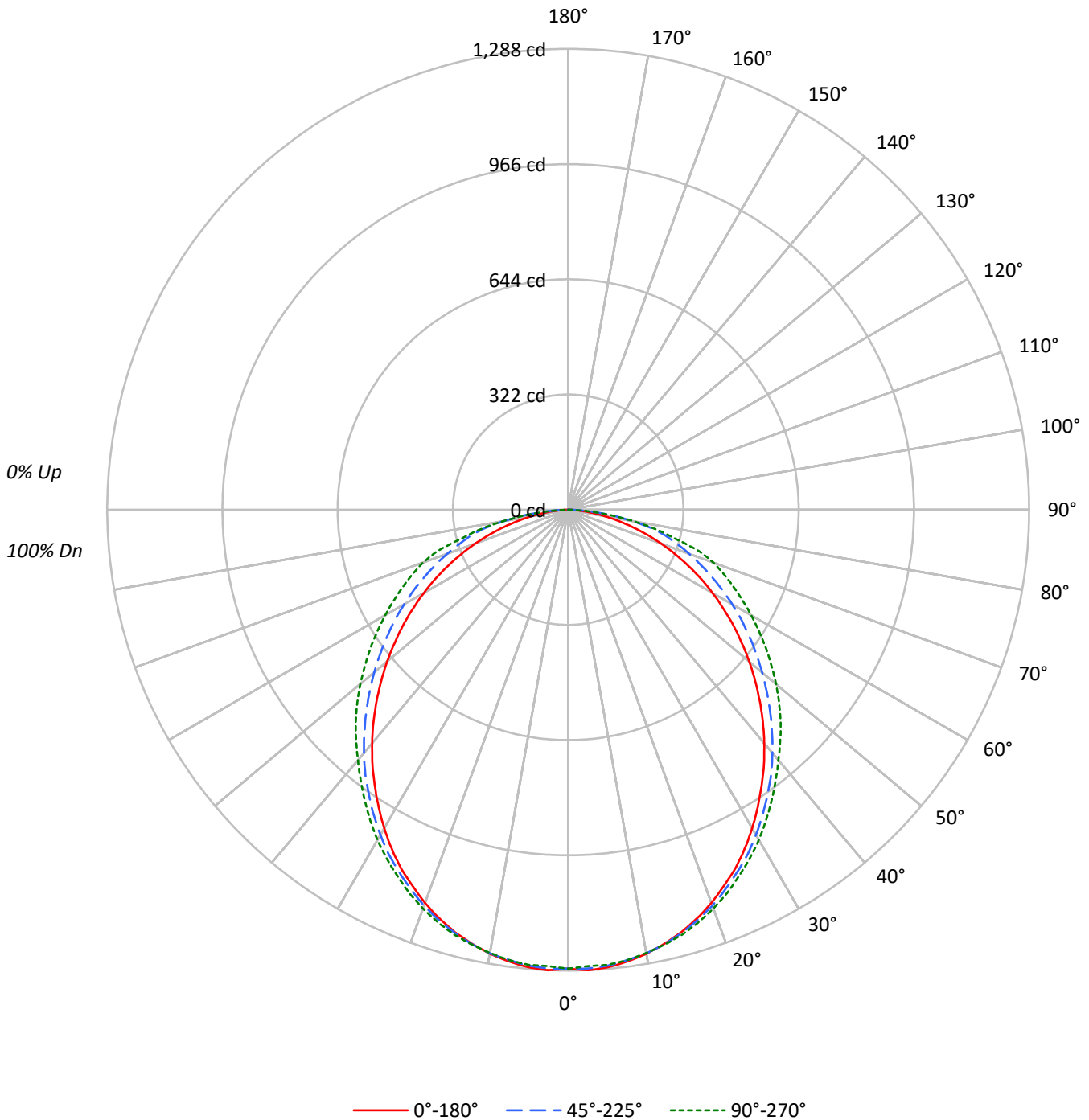
Input Watts (W): 26.133
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1726	1726	1726
5°	1734	1728	1724
10°	1722	1720	1719
15°	1703	1706	1713
20°	1675	1686	1698
25°	1642	1659	1677
30°	1597	1630	1656
35°	1547	1596	1628
40°	1497	1559	1605
45°	1440	1519	1597
50°	1382	1481	1587
55°	1322	1449	1582
60°	1253	1424	1589
65°	1179	1408	1621
70°	1085	1415	1697
75°	962	1465	1581
80°	804	1389	1425
85°	601	1110	1019



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.3	3.4
10°-20°	344.9	9.7
20°-30°	514.0	14.5
30°-40°	605.0	17.1
40°-50°	614.8	17.4
50°-60°	552.8	15.6
60°-70°	436.7	12.3
70°-80°	277.1	7.8
80°-90°	76.5	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°	980.1	27.7
0°-40°	1585.2	44.7
0°-60°	2752.8	77.7
0°-90°	3543.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3543.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1283	1283	1283	1283	1283	
5°	1284	1273	1279	1277	1277	122
15°	1222	1217	1225	1228	1230	344
25°	1106	1105	1118	1125	1129	508
35°	942	948	971	982	991	589
45°	757	768	798	822	839	584
55°	564	578	618	658	674	503
65°	370	389	442	490	509	367
75°	185	217	282	306	304	197
85°	39	67	72	66	66	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1282.6	1282.6	1282.6	1282.6	1282.6
2.5°	1288.5	1279.1	1283.8	1281.5	1276.7
5°	1283.8	1273.2	1279.1	1276.7	1276.7
7.5°	1273.2	1264.9	1269.7	1268.5	1269.7
10°	1260.2	1252.0	1259.1	1259.1	1257.9
12.5°	1242.5	1235.5	1243.7	1243.7	1244.9
15°	1222.5	1216.6	1224.9	1228.4	1229.6
17.5°	1197.8	1191.9	1202.5	1206.0	1209.5
20°	1169.5	1167.1	1177.7	1181.2	1186.0
22.5°	1137.6	1137.6	1148.2	1153.0	1160.0
25°	1105.8	1104.6	1117.6	1124.7	1129.4
27.5°	1068.1	1069.3	1085.8	1092.8	1098.7
30°	1028.0	1030.3	1049.2	1057.5	1065.7
32.5°	985.6	990.3	1011.5	1020.9	1029.2
35°	941.9	947.8	971.4	982.0	991.4
37.5°	898.3	906.6	931.3	941.9	952.5
40°	852.3	859.4	887.7	900.7	913.6
42.5°	805.2	814.6	842.9	861.8	877.1
45°	756.8	767.5	798.1	821.7	839.4
47.5°	708.5	722.7	752.1	784.0	799.3
50°	660.2	674.3	707.3	742.7	758.0
52.5°	610.7	624.8	662.5	699.1	715.6
55°	563.5	577.7	617.7	657.8	674.3
57.5°	514.0	529.3	574.1	615.4	631.9
60°	465.7	481.0	529.3	572.9	590.6
62.5°	418.5	435.0	485.7	531.7	549.4
65°	370.2	389.0	442.1	490.4	509.3
67.5°	323.0	344.2	399.6	450.3	470.4
70°	275.9	300.6	359.6	411.4	431.5
72.5°	229.9	257.0	319.5	371.4	382.0
75°	185.1	216.9	281.8	306.5	304.2
77.5°	142.6	178.0	239.3	244.0	251.1
80°	103.7	142.6	179.2	188.6	183.9
82.5°	68.4	107.3	128.5	123.8	122.6
85°	38.9	67.2	71.9	66.0	66.0
87.5°	16.5	27.1	23.6	17.7	16.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)