

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: P260717

Luminaire Tested: **24CZ-LD5-35-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260717
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-5500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3659.0 lumens
Efficiency: N/A
Efficacy: 147.4 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

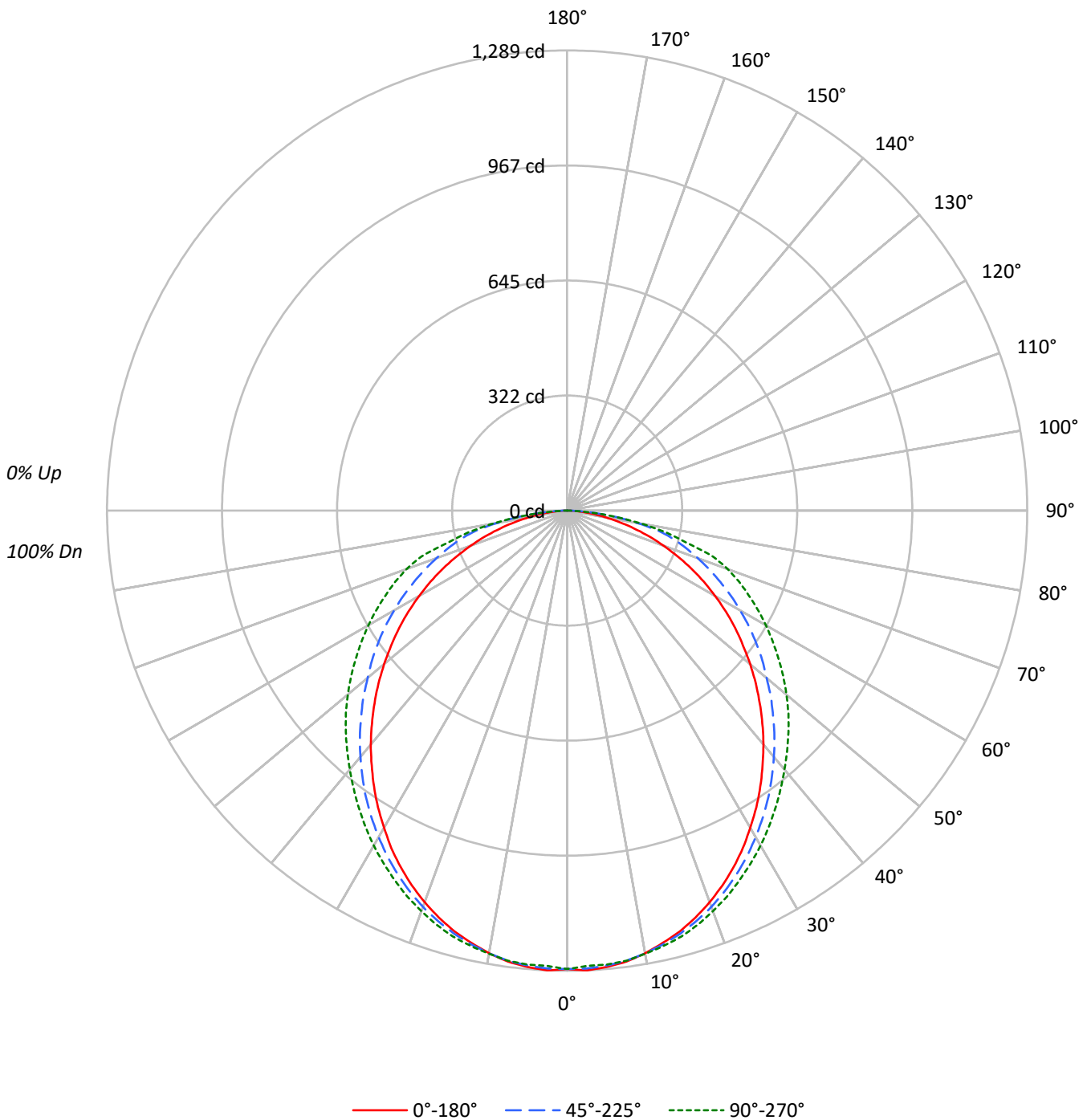
Input Watts (W): 24.831
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1728	1728	1728
5°	1733	1728	1724
10°	1720	1720	1722
15°	1700	1708	1721
20°	1672	1692	1709
25°	1637	1668	1696
30°	1594	1641	1684
35°	1550	1613	1671
40°	1503	1582	1663
45°	1452	1552	1669
50°	1400	1526	1678
55°	1349	1516	1696
60°	1288	1507	1729
65°	1221	1508	1787
70°	1129	1533	1883
75°	1010	1602	1791
80°	845	1533	1640
85°	638	1179	1122



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.3	3.3
10°-20°	345.4	9.4
20°-30°	516.3	14.1
30°-40°	612.5	16.7
40°-50°	630.4	17.2
50°-60°	578.3	15.8
60°-70°	467.6	12.8
70°-80°	303.5	8.3
80°-90°	83.7	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°	983.0	26.9
0°-40°	1595.5	43.6
0°-60°	2804.3	76.6
0°-90°	3659.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3659.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1284	1284	1284	1284	1284	
5°	1283	1274	1279	1278	1277	122
15°	1220	1215	1226	1232	1235	344
25°	1102	1104	1124	1134	1143	507
35°	943	951	982	1004	1017	590
45°	763	776	816	854	877	589
55°	575	593	646	699	723	514
65°	383	406	474	536	561	379
75°	194	230	308	344	344	206
85°	41	70	76	74	73	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1284.1	1284.1	1284.1	1284.1	1284.1
2.5°	1289.1	1279.1	1284.1	1282.9	1276.6
5°	1282.9	1274.1	1279.1	1277.9	1276.6
7.5°	1274.1	1265.3	1271.6	1270.3	1271.6
10°	1259.1	1251.5	1259.1	1260.3	1260.3
12.5°	1240.3	1234.0	1244.0	1246.5	1249.0
15°	1220.2	1215.2	1226.5	1231.5	1235.3
17.5°	1195.2	1191.4	1205.2	1211.5	1216.5
20°	1167.6	1166.4	1181.4	1187.7	1193.9
22.5°	1136.3	1136.3	1153.8	1161.3	1170.1
25°	1102.5	1103.7	1123.8	1133.8	1142.6
27.5°	1066.1	1067.4	1091.2	1103.7	1113.7
30°	1026.0	1031.1	1056.1	1072.4	1083.7
32.5°	986.0	992.2	1019.8	1038.6	1051.1
35°	943.4	950.9	982.2	1003.5	1017.3
37.5°	899.5	908.3	942.1	965.9	982.2
40°	855.7	865.7	900.8	928.3	947.1
42.5°	809.3	820.6	859.4	892.0	912.0
45°	763.0	775.5	815.6	854.4	877.0
47.5°	716.6	731.6	774.2	816.8	840.6
50°	669.0	684.0	729.1	778.0	801.8
52.5°	621.4	638.9	689.0	739.2	763.0
55°	575.0	592.6	646.4	699.1	722.9
57.5°	527.4	545.0	603.8	659.0	682.8
60°	478.6	498.6	560.0	616.4	642.7
62.5°	431.0	452.3	517.4	577.5	602.6
65°	383.4	405.9	473.6	536.2	561.3
67.5°	334.5	360.8	431.0	494.9	521.2
70°	286.9	315.7	389.6	453.5	478.6
72.5°	240.5	271.9	348.3	413.4	428.5
75°	194.2	230.5	308.2	344.5	344.5
77.5°	150.3	190.4	263.1	276.9	284.4
80°	109.0	152.8	197.9	214.2	211.7
82.5°	72.7	116.5	141.6	141.6	137.8
85°	41.3	70.2	76.4	73.9	72.7
87.5°	17.5	26.3	23.8	18.8	16.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)