

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: P260943

Luminaire Tested: **24CZ-LD5-35SE-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260943
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-LD5-35SE-UNV-L92765-W2A1-U-5700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3353.0 lumens
Efficiency: N/A
Efficacy: 124.8 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

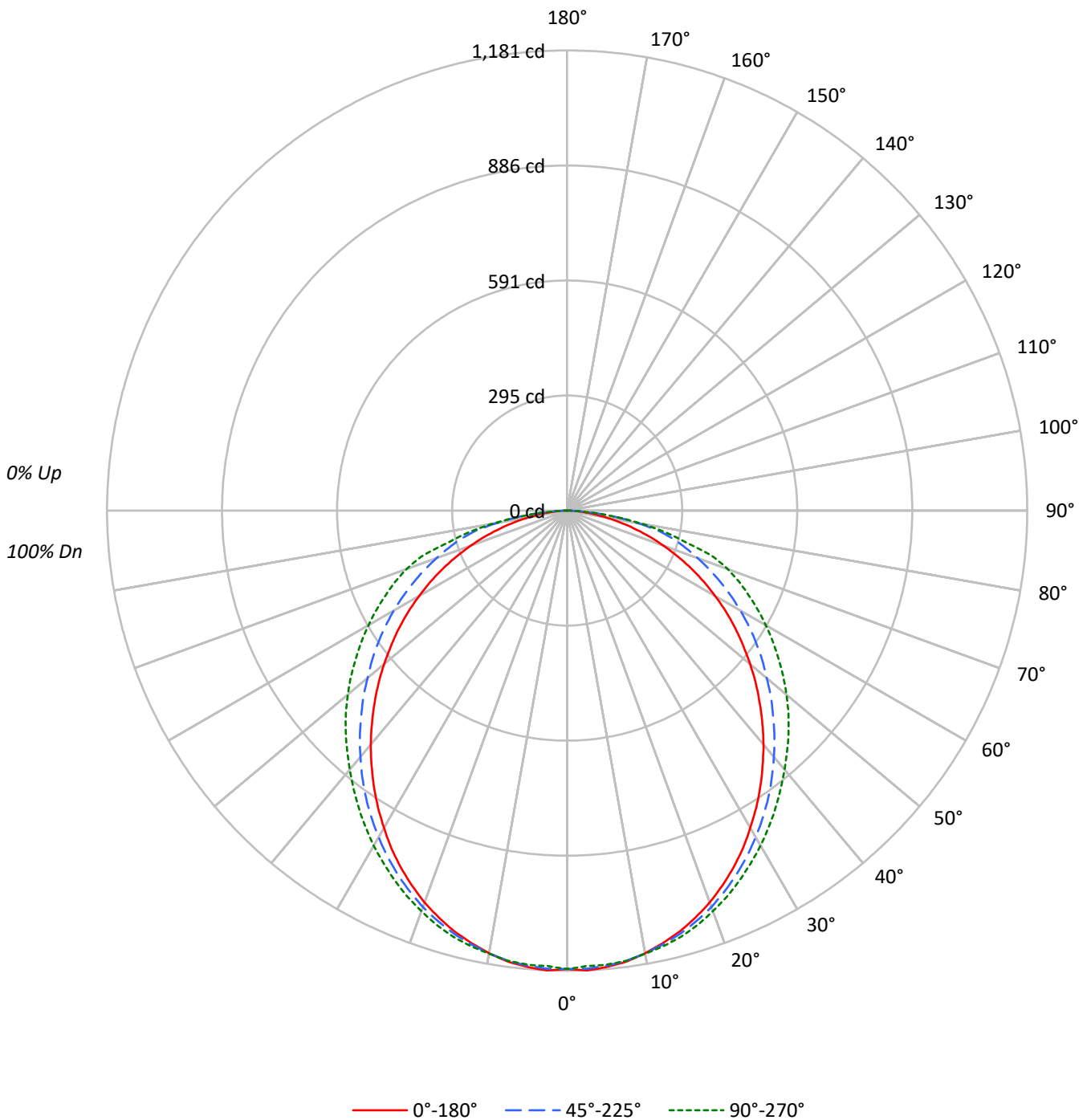
Input Watts (W): 26.877
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1583	1583	1583
5°	1588	1583	1580
10°	1576	1576	1578
15°	1558	1566	1577
20°	1532	1550	1567
25°	1500	1529	1554
30°	1461	1504	1543
35°	1420	1478	1531
40°	1377	1450	1524
45°	1330	1422	1529
50°	1283	1399	1538
55°	1236	1390	1554
60°	1180	1381	1585
65°	1118	1382	1637
70°	1034	1404	1725
75°	925	1468	1641
80°	774	1406	1503
85°	585	1081	1028



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.2	3.3
10°-20°	316.5	9.4
20°-30°	473.1	14.1
30°-40°	561.3	16.7
40°-50°	577.7	17.2
50°-60°	530.0	15.8
60°-70°	428.5	12.8
70°-80°	278.1	8.3
80°-90°	76.7	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°	900.8	26.9
0°-40°	1462.1	43.6
0°-60°	2569.7	76.6
0°-90°	3353.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3353.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1177	1177	1177	1177	1177	
5°	1176	1168	1172	1171	1170	112
15°	1118	1114	1124	1128	1132	315
25°	1010	1011	1030	1039	1047	465
35°	864	871	900	920	932	541
45°	699	711	747	783	804	540
55°	527	543	592	641	662	471
65°	351	372	434	491	514	347
75°	178	211	282	316	316	189
85°	38	64	70	68	67	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1176.7	1176.7	1176.7	1176.7	1176.7
2.5°	1181.3	1172.1	1176.7	1175.6	1169.8
5°	1175.6	1167.5	1172.1	1171.0	1169.8
7.5°	1167.5	1159.5	1165.2	1164.1	1165.2
10°	1153.8	1146.9	1153.8	1154.9	1154.9
12.5°	1136.5	1130.8	1140.0	1142.3	1144.6
15°	1118.2	1113.6	1123.9	1128.5	1132.0
17.5°	1095.2	1091.8	1104.4	1110.1	1114.7
20°	1070.0	1068.8	1082.6	1088.3	1094.1
22.5°	1041.3	1041.3	1057.3	1064.2	1072.3
25°	1010.3	1011.4	1029.8	1039.0	1047.0
27.5°	977.0	978.1	999.9	1011.4	1020.6
30°	940.2	944.8	967.8	982.7	993.0
32.5°	903.5	909.2	934.5	951.7	963.2
35°	864.5	871.4	900.1	919.6	932.2
37.5°	824.3	832.3	863.3	885.1	900.1
40°	784.1	793.3	825.4	850.7	867.9
42.5°	741.6	752.0	787.5	817.4	835.8
45°	699.1	710.6	747.4	783.0	803.6
47.5°	656.7	670.4	709.5	748.5	770.3
50°	613.0	626.8	668.2	712.9	734.7
52.5°	569.4	585.5	631.4	677.3	699.1
55°	526.9	543.0	592.4	640.6	662.4
57.5°	483.3	499.4	553.3	603.9	625.7
60°	438.5	456.9	513.2	564.8	588.9
62.5°	394.9	414.4	474.1	529.2	552.2
65°	351.3	372.0	434.0	491.4	514.3
67.5°	306.5	330.6	394.9	453.5	477.6
70°	262.9	289.3	357.0	415.6	438.5
72.5°	220.4	249.1	319.2	378.8	392.6
75°	177.9	211.2	282.4	315.7	315.7
77.5°	137.8	174.5	241.1	253.7	260.6
80°	99.9	140.1	181.4	196.3	194.0
82.5°	66.6	106.8	129.7	129.7	126.3
85°	37.9	64.3	70.0	67.7	66.6
87.5°	16.1	24.1	21.8	17.2	14.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)