

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: P260802

Luminaire Tested: **24CZ-LD5-35SE-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260802
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-L82765-W2A1-U-3000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3358.0 lumens
Efficiency: N/A
Efficacy: 129.9 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

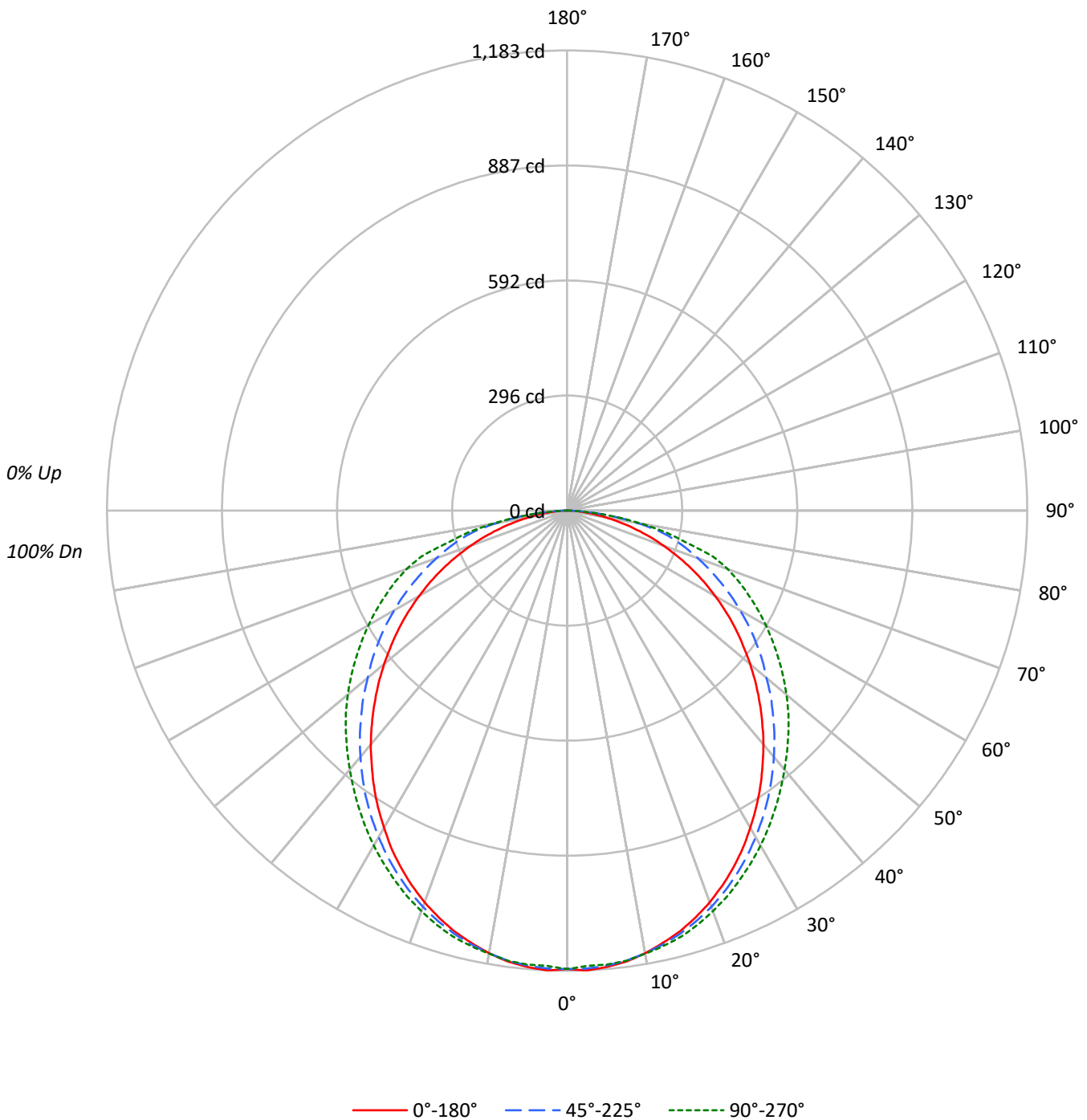
Input Watts (W): 25.854
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1586	1586	1586
5°	1590	1586	1582
10°	1579	1579	1580
15°	1560	1568	1579
20°	1534	1552	1569
25°	1502	1531	1557
30°	1463	1506	1545
35°	1422	1481	1533
40°	1379	1452	1527
45°	1332	1424	1531
50°	1285	1401	1540
55°	1238	1392	1556
60°	1182	1383	1587
65°	1120	1384	1640
70°	1036	1407	1728
75°	926	1470	1644
80°	775	1408	1506
85°	585	1082	1030



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.4	3.3
10°-20°	317.0	9.4
20°-30°	473.8	14.1
30°-40°	562.1	16.7
40°-50°	578.6	17.2
50°-60°	530.8	15.8
60°-70°	429.1	12.8
70°-80°	278.5	8.3
80°-90°	76.8	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°	902.1	26.9
0°-40°	1464.2	43.6
0°-60°	2573.6	76.6
0°-90°	3358.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3358.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1178	1178	1178	1178	1178	
5°	1177	1169	1174	1173	1172	112
15°	1120	1115	1126	1130	1134	315
25°	1012	1013	1031	1040	1049	466
35°	866	873	901	921	934	541
45°	700	712	748	784	805	540
55°	528	544	593	642	663	471
65°	352	372	435	492	515	348
75°	178	212	283	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°	1178.5	1178.5	1178.5	1178.5	1178.5
2.5°	1183.1	1173.9	1178.5	1177.3	1171.6
5°	1177.3	1169.3	1173.9	1172.7	1171.6
7.5°	1169.3	1161.2	1167.0	1165.8	1167.0
10°	1155.5	1148.6	1155.5	1156.6	1156.6
12.5°	1138.2	1132.5	1141.7	1144.0	1146.3
15°	1119.8	1115.2	1125.6	1130.2	1133.6
17.5°	1096.9	1093.4	1106.0	1111.8	1116.4
20°	1071.6	1070.4	1084.2	1090.0	1095.7
22.5°	1042.8	1042.8	1058.9	1065.8	1073.9
25°	1011.8	1012.9	1031.3	1040.5	1048.6
27.5°	978.4	979.6	1001.4	1012.9	1022.1
30°	941.6	946.2	969.2	984.2	994.5
32.5°	904.8	910.6	935.9	953.1	964.6
35°	865.8	872.7	901.4	920.9	933.6
37.5°	825.5	833.6	864.6	886.4	901.4
40°	785.3	794.5	826.7	852.0	869.2
42.5°	742.7	753.1	788.7	818.6	837.0
45°	700.2	711.7	748.5	784.1	804.8
47.5°	657.7	671.4	710.5	749.6	771.5
50°	614.0	627.8	669.1	714.0	735.8
52.5°	570.3	586.4	632.4	678.3	700.2
55°	527.7	543.8	593.3	641.6	663.4
57.5°	484.0	500.1	554.2	604.8	626.6
60°	439.2	457.6	513.9	565.7	589.8
62.5°	395.5	415.1	474.8	530.0	553.0
65°	351.8	372.5	434.6	492.1	515.1
67.5°	307.0	331.1	395.5	454.1	478.3
70°	263.3	289.7	357.6	416.2	439.2
72.5°	220.8	249.5	319.6	379.4	393.2
75°	178.2	211.6	282.8	316.2	316.2
77.5°	138.0	174.8	241.4	254.1	261.0
80°	100.0	140.3	181.7	196.6	194.3
82.5°	66.7	106.9	129.9	129.9	126.5
85°	37.9	64.4	70.1	67.8	66.7
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)