

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: P260941

Luminaire Tested: **24CZ-LD5-35SE-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260941
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-5000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3288.0 lumens
Efficiency: N/A
Efficacy: 123.2 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

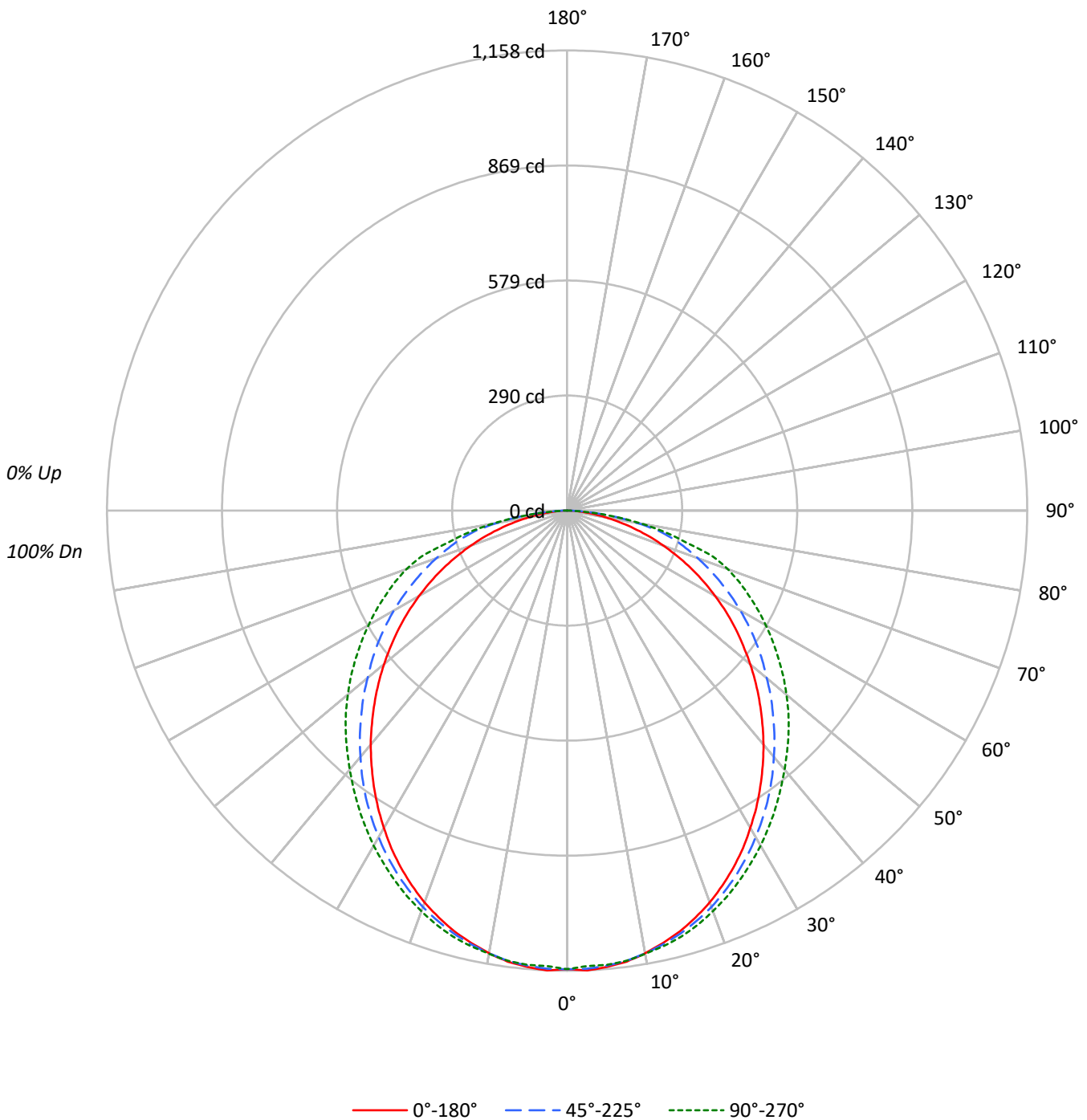
Input Watts (W): 26.691
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1553	1553	1553
5°	1557	1552	1549
10°	1546	1546	1547
15°	1527	1535	1546
20°	1502	1520	1536
25°	1471	1499	1524
30°	1432	1474	1513
35°	1392	1450	1501
40°	1351	1422	1495
45°	1305	1395	1499
50°	1258	1371	1508
55°	1212	1363	1524
60°	1157	1354	1554
65°	1097	1355	1606
70°	1014	1377	1692
75°	907	1439	1609
80°	759	1378	1475
85°	574	1061	1008



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.0	3.3
10°-20°	310.3	9.4
20°-30°	463.9	14.1
30°-40°	550.4	16.7
40°-50°	566.5	17.2
50°-60°	519.7	15.8
60°-70°	420.2	12.8
70°-80°	272.7	8.3
80°-90°	75.2	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°	883.3	26.9
0°-40°	1433.7	43.6
0°-60°	2519.9	76.6
0°-90°	3288.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3288.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1154	1154	1154	1154	1154	
5°	1153	1145	1149	1148	1147	109
15°	1096	1092	1102	1107	1110	309
25°	991	992	1010	1019	1027	456
35°	848	854	883	902	914	530
45°	686	697	733	768	788	529
55°	517	532	581	628	650	462
65°	344	365	426	482	504	340
75°	174	207	277	310	310	185
85°	37	63	69	66	65	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1153.9	1153.9	1153.9	1153.9	1153.9
2.5°	1158.4	1149.4	1153.9	1152.8	1147.2
5°	1152.8	1144.9	1149.4	1148.3	1147.2
7.5°	1144.9	1137.0	1142.7	1141.5	1142.7
10°	1131.4	1124.6	1131.4	1132.5	1132.5
12.5°	1114.5	1108.9	1117.9	1120.1	1122.4
15°	1096.5	1092.0	1102.1	1106.6	1110.0
17.5°	1074.0	1070.6	1083.0	1088.6	1093.1
20°	1049.2	1048.1	1061.6	1067.2	1072.9
22.5°	1021.1	1021.1	1036.8	1043.6	1051.5
25°	990.7	991.8	1009.8	1018.8	1026.7
27.5°	958.0	959.2	980.5	991.8	1000.8
30°	922.0	926.5	949.0	963.7	973.8
32.5°	886.0	891.6	916.4	933.3	944.5
35°	847.7	854.5	882.6	901.7	914.1
37.5°	808.3	816.2	846.6	868.0	882.6
40°	768.9	777.9	809.4	834.2	851.1
42.5°	727.2	737.4	772.3	801.6	819.6
45°	685.6	696.9	732.9	767.8	788.0
47.5°	643.9	657.5	695.7	734.0	755.4
50°	601.2	614.7	655.2	699.1	720.5
52.5°	558.4	574.1	619.2	664.2	685.6
55°	516.7	532.5	580.9	628.2	649.6
57.5°	474.0	489.7	542.6	592.2	613.5
60°	430.0	448.1	503.2	553.9	577.5
62.5°	387.3	406.4	464.9	519.0	541.5
65°	344.5	364.8	425.5	481.8	504.3
67.5°	300.6	324.2	387.3	444.7	468.3
70°	257.8	283.7	350.1	407.5	430.0
72.5°	216.1	244.3	313.0	371.5	385.0
75°	174.5	207.1	276.9	309.6	309.6
77.5°	135.1	171.1	236.4	248.8	255.6
80°	97.9	137.3	177.9	192.5	190.3
82.5°	65.3	104.7	127.2	127.2	123.8
85°	37.2	63.0	68.7	66.4	65.3
87.5°	15.8	23.6	21.4	16.9	14.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)