

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: P261358

Luminaire Tested: **24CZ-LD5-35SE-S-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261358
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-L92765-W2A1-U-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3104.0 lumens
Efficiency: N/A
Efficacy: 118.8 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

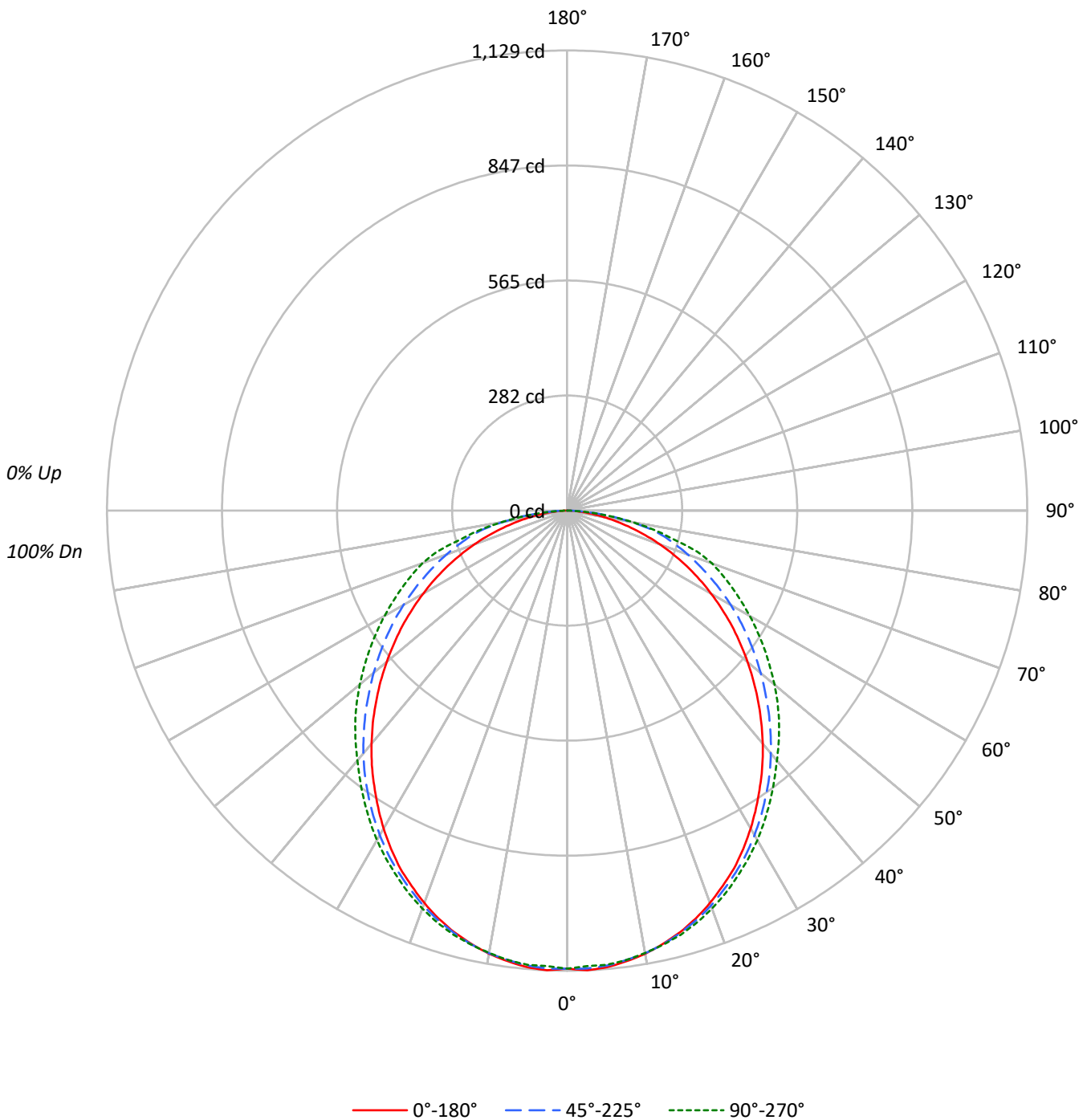
Input Watts (W): 26.133
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	50
5	76	63	53	47	73	61	53	47	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1512	1512	1512
5°	1519	1514	1511
10°	1508	1507	1506
15°	1492	1495	1500
20°	1467	1477	1488
25°	1438	1454	1469
30°	1399	1428	1451
35°	1355	1398	1427
40°	1312	1366	1406
45°	1262	1330	1399
50°	1211	1297	1390
55°	1158	1270	1386
60°	1098	1248	1392
65°	1032	1233	1421
70°	951	1239	1487
75°	843	1283	1385
80°	704	1216	1248
85°	526	973	892



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.2	3.4
10°-20°	302.2	9.7
20°-30°	450.3	14.5
30°-40°	530.1	17.1
40°-50°	538.7	17.4
50°-60°	484.3	15.6
60°-70°	382.6	12.3
70°-80°	242.7	7.8
80°-90°	67.0	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°	858.7	27.7
0°-40°	1388.7	44.7
0°-60°	2411.7	77.7
0°-90°	3104.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3104.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1124	1124	1124	1124	1124	
5°	1125	1115	1121	1118	1118	107
15°	1071	1066	1073	1076	1077	302
25°	969	968	979	985	989	445
35°	825	830	851	860	869	516
45°	663	672	699	720	735	512
55°	494	506	541	576	591	441
65°	324	341	387	430	446	321
75°	162	190	247	268	266	173
85°	34	59	63	58	58	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1123.7	1123.7	1123.7	1123.7	1123.7
2.5°	1128.9	1120.6	1124.7	1122.7	1118.5
5°	1124.7	1115.4	1120.6	1118.5	1118.5
7.5°	1115.4	1108.2	1112.3	1111.3	1112.3
10°	1104.1	1096.9	1103.0	1103.0	1102.0
12.5°	1088.6	1082.4	1089.6	1089.6	1090.7
15°	1071.0	1065.9	1073.1	1076.2	1077.2
17.5°	1049.3	1044.2	1053.5	1056.6	1059.7
20°	1024.6	1022.5	1031.8	1034.9	1039.0
22.5°	996.7	996.7	1006.0	1010.1	1016.3
25°	968.8	967.7	979.1	985.3	989.4
27.5°	935.7	936.8	951.2	957.4	962.6
30°	900.6	902.7	919.2	926.4	933.7
32.5°	863.4	867.6	886.2	894.4	901.6
35°	825.2	830.4	851.0	860.3	868.6
37.5°	787.0	794.2	815.9	825.2	834.5
40°	746.7	752.9	777.7	789.1	800.4
42.5°	705.4	713.7	738.5	755.0	768.4
45°	663.1	672.4	699.2	719.9	735.4
47.5°	620.7	633.1	658.9	686.8	700.3
50°	578.4	590.8	619.7	650.7	664.1
52.5°	535.0	547.4	580.4	612.5	626.9
55°	493.7	506.1	541.2	576.3	590.8
57.5°	450.3	463.7	503.0	539.1	553.6
60°	408.0	421.4	463.7	501.9	517.4
62.5°	366.7	381.1	425.5	465.8	481.3
65°	324.3	340.8	387.3	429.7	446.2
67.5°	283.0	301.6	350.1	394.5	412.1
70°	241.7	263.4	315.0	360.5	378.0
72.5°	201.4	225.2	279.9	325.3	334.6
75°	162.2	190.0	246.8	268.5	266.5
77.5°	125.0	156.0	209.7	213.8	220.0
80°	90.9	125.0	157.0	165.3	161.1
82.5°	59.9	94.0	112.6	108.4	107.4
85°	34.1	58.9	63.0	57.8	57.8
87.5°	14.5	23.8	20.7	15.5	14.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)