

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: P258626

Luminaire Tested: **14CZ-LD5-35-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258626
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35573)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-35-UNV-L82765-W2A1-U-4000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3529.0 lumens
Efficiency: N/A
Efficacy: 127.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

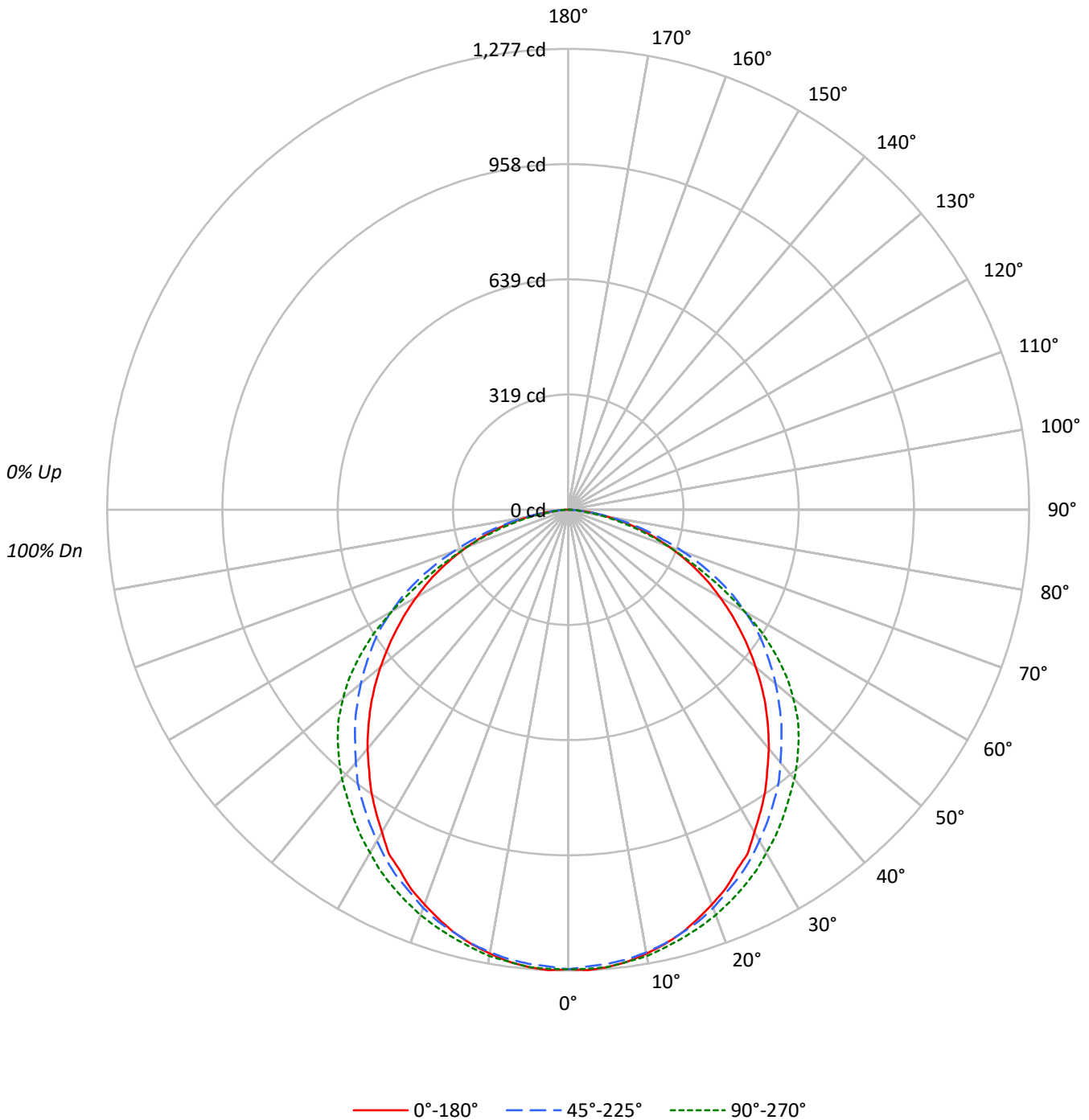
Input Watts (W): 27.714
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P258626

CATALOG NUMBER: 14CZ-LD5-35-UNV-L82765-W2A1-U-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P258626

CATALOG NUMBER: 14CZ-LD5-35-UNV-L82765-W2A1-U-4000K

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	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70
3	90	80	72	66	88	78	71	65	75	69	64	73	67	63	70	66	62	59
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	47	40	36	34
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	29	42	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3427	3427	3427
5°	3435	3412	3435
10°	3413	3404	3432
15°	3383	3383	3422
20°	3333	3363	3423
25°	3275	3332	3420
30°	3206	3292	3411
35°	3126	3258	3412
40°	3038	3215	3423
45°	2946	3178	3436
50°	2840	3139	3409
55°	2726	3110	3298
60°	2612	3043	3034
65°	2492	2914	2658
70°	2313	2655	2300
75°	2098	2315	1900
80°	1672	1833	1402
85°	1183	1022	806



TEST NUMBER: P258626

CATALOG NUMBER: 14CZ-LD5-35-UNV-L82765-W2A1-U-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.5	3.4
10°-20°	344.2	9.8
20°-30°	519.0	14.7
30°-40°	622.1	17.6
40°-50°	645.6	18.3
50°-60°	582.3	16.5
60°-70°	424.8	12.0
70°-80°	222.9	6.3
80°-90°	47.5	1.3
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°	983.8	27.9
0°-40°	1605.9	45.5
0°-60°	2833.8	80.3
0°-90°	3529.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3529.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1274	1274	1274	1274	1274	
5°	1272	1268	1263	1272	1272	121
15°	1214	1214	1214	1228	1228	342
25°	1103	1108	1122	1146	1152	509
35°	952	962	992	1028	1039	594
45°	774	790	835	886	903	597
55°	581	602	663	706	703	520
65°	391	414	458	440	418	387
75°	202	230	223	193	183	212
85°	38	47	33	28	26	49
90°	0	0	0	0	0	



TEST NUMBER: P258626

CATALOG NUMBER: 14CZ-LD5-35-UNV-L82765-W2A1-U-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1273.5	1273.5	1273.5	1273.5	1273.5
2.5°	1277.0	1273.5	1266.6	1273.5	1273.5
5°	1271.8	1268.3	1263.1	1271.8	1271.8
7.5°	1263.1	1259.6	1256.1	1264.8	1263.1
10°	1249.2	1247.4	1245.7	1256.1	1256.1
12.5°	1233.5	1233.5	1231.8	1243.9	1242.2
15°	1214.4	1214.4	1214.4	1228.3	1228.3
17.5°	1190.0	1193.5	1197.0	1212.6	1212.6
20°	1163.9	1167.4	1174.3	1193.5	1195.2
22.5°	1137.8	1139.6	1146.5	1169.1	1174.3
25°	1103.0	1108.2	1122.2	1146.5	1151.7
27.5°	1075.2	1076.9	1092.6	1120.4	1127.4
30°	1031.7	1043.9	1059.5	1090.8	1097.8
32.5°	991.7	1002.1	1026.5	1059.5	1070.0
35°	951.7	962.1	991.7	1028.2	1038.6
37.5°	906.4	922.1	956.9	993.4	1005.6
40°	864.7	878.6	915.1	960.4	974.3
42.5°	819.4	833.4	873.4	923.8	939.5
45°	774.2	789.9	835.1	885.5	902.9
47.5°	727.2	744.6	791.6	847.3	862.9
50°	678.5	697.7	749.8	807.3	814.2
52.5°	629.8	650.7	706.3	756.8	763.8
55°	581.1	602.0	662.9	706.3	702.9
57.5°	534.1	556.7	619.4	642.0	638.5
60°	485.4	509.8	565.4	575.9	563.7
62.5°	440.2	462.8	515.0	506.3	490.6
65°	391.4	414.1	457.6	440.2	417.5
67.5°	342.7	370.6	398.4	368.8	351.4
70°	294.0	325.3	337.5	307.9	292.3
72.5°	247.0	280.1	276.6	247.0	236.6
75°	201.8	229.7	222.7	193.1	182.7
77.5°	153.1	184.4	168.8	144.4	135.7
80°	107.9	135.7	118.3	97.4	90.5
82.5°	71.3	90.5	73.1	57.4	52.2
85°	38.3	47.0	33.1	27.8	26.1
87.5°	15.7	13.9	12.2	12.2	10.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)