

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: P258681

Luminaire Tested: **14CZ-LD5-35-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258681
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-L92765-W2A1-U-4500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3203.0 lumens
Efficiency: N/A
Efficacy: 114.4 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

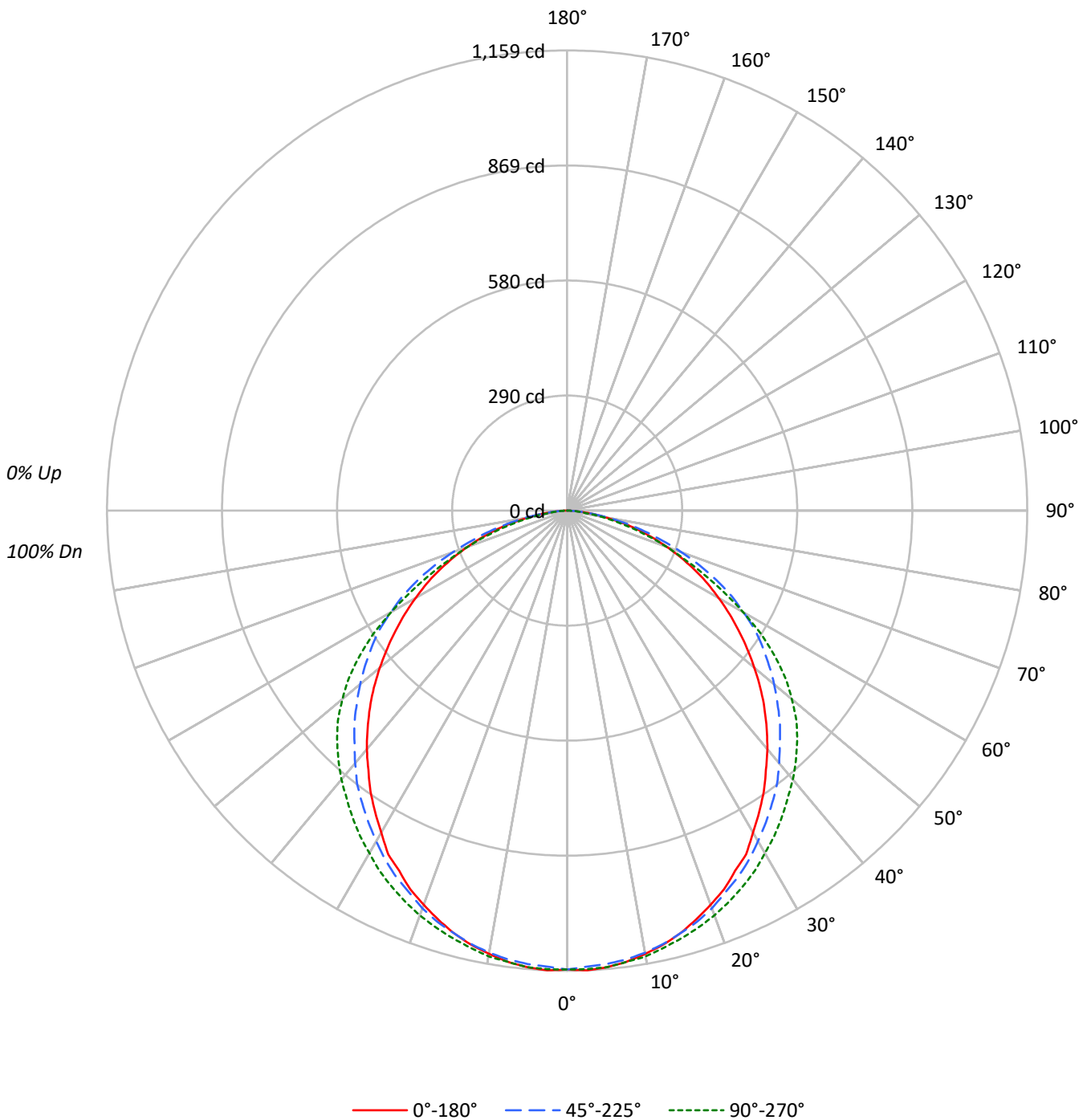
Input Watts (W): 27.993
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P258681

CATALOG NUMBER: 14CZ-LD5-35-UNV-L92765-W2A1-U-4500K

Luminous Intensity Polar Plot





TEST NUMBER: P258681

CATALOG NUMBER: 14CZ-LD5-35-UNV-L92765-W2A1-U-4500K

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°	3111	3111	3111
5°	3118	3097	3118
10°	3098	3089	3115
15°	3071	3071	3106
20°	3025	3052	3107
25°	2972	3024	3104
30°	2910	2988	3096
35°	2837	2957	3097
40°	2757	2918	3106
45°	2674	2884	3119
50°	2578	2849	3094
55°	2474	2822	2993
60°	2371	2762	2753
65°	2262	2644	2413
70°	2100	2410	2087
75°	1905	2101	1724
80°	1517	1664	1272
85°	1071	926	732



TEST NUMBER: P258681

CATALOG NUMBER: 14CZ-LD5-35-UNV-L92765-W2A1-U-4500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.4	3.4
10°-20°	312.4	9.8
20°-30°	471.1	14.7
30°-40°	564.6	17.6
40°-50°	586.0	18.3
50°-60°	528.5	16.5
60°-70°	385.5	12.0
70°-80°	202.3	6.3
80°-90°	43.1	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°	892.9	27.9
0°-40°	1457.5	45.5
0°-60°	2572.0	80.3
0°-90°	3203.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3203.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1156	1156	1156	1156	1156	
5°	1154	1151	1146	1154	1154	110
15°	1102	1102	1102	1115	1115	310
25°	1001	1006	1018	1041	1045	462
35°	864	873	900	933	943	539
45°	703	717	758	804	820	542
55°	527	546	602	641	638	472
65°	355	376	415	400	379	351
75°	183	208	202	175	166	192
85°	35	43	30	25	24	44
90°	0	0	0	0	0	



TEST NUMBER: P258681

CATALOG NUMBER: 14CZ-LD5-35-UNV-L92765-W2A1-U-4500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1155.9	1155.9	1155.9	1155.9	1155.9
2.5°	1159.0	1155.9	1149.6	1155.9	1155.9
5°	1154.3	1151.1	1146.4	1154.3	1154.3
7.5°	1146.4	1143.2	1140.1	1148.0	1146.4
10°	1133.8	1132.2	1130.6	1140.1	1140.1
12.5°	1119.6	1119.6	1118.0	1129.0	1127.4
15°	1102.2	1102.2	1102.2	1114.8	1114.8
17.5°	1080.1	1083.2	1086.4	1100.6	1100.6
20°	1056.4	1059.5	1065.9	1083.2	1084.8
22.5°	1032.7	1034.3	1040.6	1061.1	1065.9
25°	1001.1	1005.9	1018.5	1040.6	1045.3
27.5°	975.9	977.4	991.6	1016.9	1023.2
30°	936.4	947.4	961.6	990.1	996.4
32.5°	900.1	909.5	931.6	961.6	971.1
35°	863.7	873.2	900.1	933.2	942.7
37.5°	822.7	836.9	868.5	901.6	912.7
40°	784.8	797.4	830.6	871.6	884.3
42.5°	743.7	756.4	792.7	838.5	852.7
45°	702.7	716.9	757.9	803.7	819.5
47.5°	660.0	675.8	718.5	769.0	783.2
50°	615.8	633.2	680.6	732.7	739.0
52.5°	571.6	590.6	641.1	686.9	693.2
55°	527.4	546.4	601.6	641.1	637.9
57.5°	484.8	505.3	562.1	582.7	579.5
60°	440.6	462.7	513.2	522.7	511.6
62.5°	399.5	420.0	467.4	459.5	445.3
65°	355.3	375.8	415.3	399.5	379.0
67.5°	311.1	336.3	361.6	334.8	319.0
70°	266.9	295.3	306.3	279.5	265.3
72.5°	224.2	254.2	251.1	224.2	214.8
75°	183.2	208.4	202.1	175.3	165.8
77.5°	139.0	167.4	153.2	131.1	123.2
80°	97.9	123.2	107.4	88.4	82.1
82.5°	64.7	82.1	66.3	52.1	47.4
85°	34.7	42.6	30.0	25.3	23.7
87.5°	14.2	12.6	11.1	11.1	9.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)