

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: P259040

Luminaire Tested: **14CZ-LD5-20-SQP-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259040
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35908)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-20-SQP-UNV-L83050-W2A1-U-3000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1285.0 lumens
Efficiency: N/A
Efficacy: 83.7 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

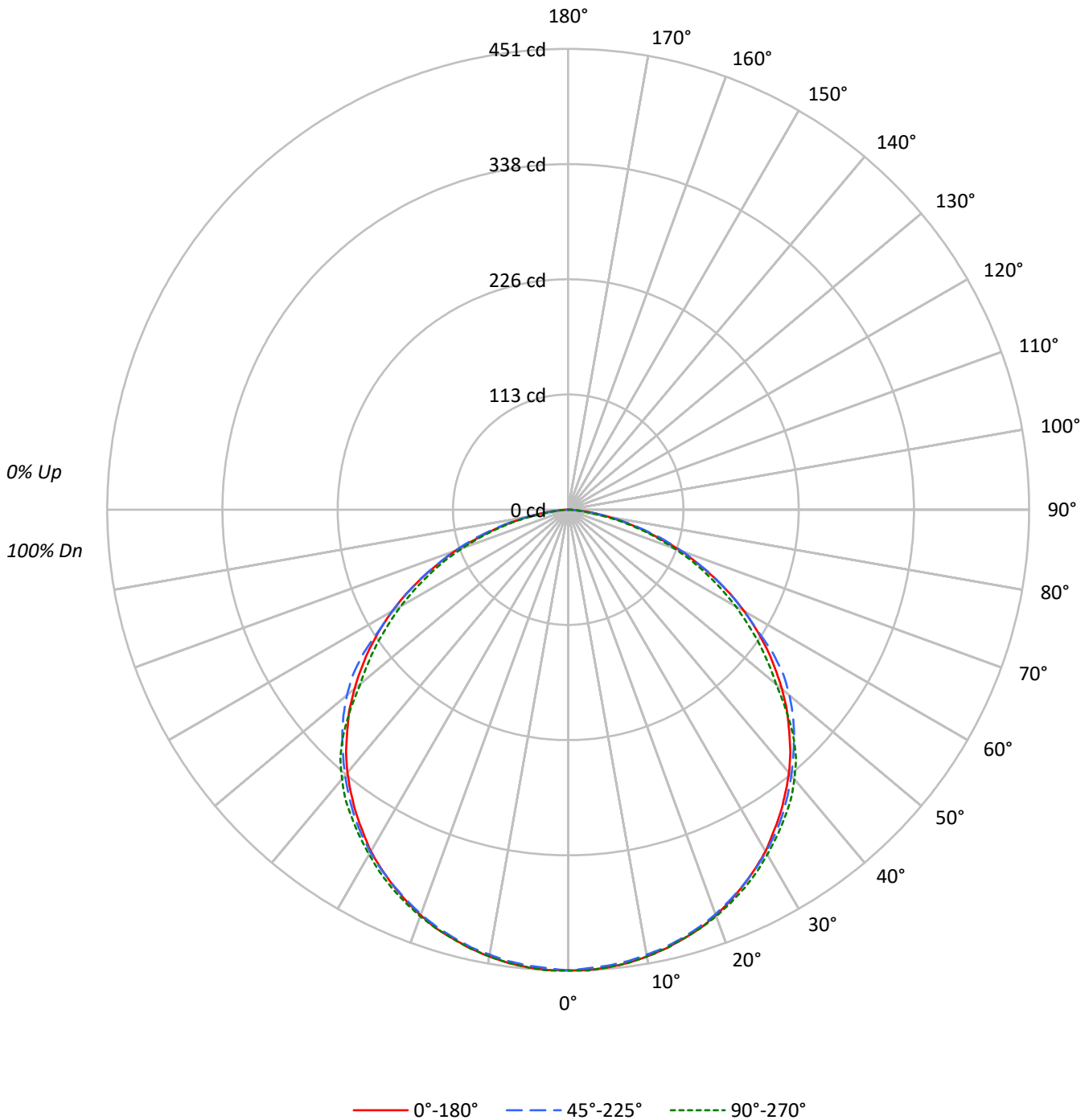
Input Watts (W): 15.345
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P259040

CATALOG NUMBER: 14CZ-LD5-20-SQP-UNV-L83050-W2A1-U-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P259040

CATALOG NUMBER: 14CZ-LD5-20-SQP-UNV-L83050-W2A1-U-3000K

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	65	88	78	71	65	75	69	64	73	67	63	70	65	62	59
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	50	46	44
6	70	57	48	42	68	56	48	41	54	47	41	52	46	41	51	45	40	38
7	65	52	43	37	63	51	42	37	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1213	1213	1213
5°	1214	1210	1214
10°	1213	1208	1213
15°	1211	1208	1211
20°	1209	1206	1213
25°	1205	1203	1212
30°	1200	1202	1211
35°	1190	1200	1211
40°	1180	1193	1209
45°	1163	1189	1184
50°	1142	1183	1111
55°	1113	1146	1070
60°	1070	1068	1019
65°	1004	1009	953
70°	921	932	863
75°	774	810	737
80°	614	628	519
85°	404	349	296



TEST NUMBER: P259040

CATALOG NUMBER: 14CZ-LD5-20-SQP-UNV-L83050-W2A1-U-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.7	3.3
10°-20°	122.7	9.6
20°-30°	187.4	14.6
30°-40°	228.7	17.8
40°-50°	239.1	18.6
50°-60°	211.7	16.5
60°-70°	155.9	12.1
70°-80°	80.7	6.3
80°-90°	16.1	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°	352.9	27.5
0°-40°	581.5	45.3
0°-60°	1032.3	80.3
0°-90°	1285.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1285.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	451	451	451	451	451	
5°	450	450	448	450	450	43
15°	435	435	434	435	435	123
25°	406	406	405	408	408	187
35°	362	363	365	369	369	227
45°	306	308	312	315	311	236
55°	237	242	244	232	228	212
65°	158	167	158	152	150	156
75°	74	80	78	73	71	79
85°	13	14	11	10	10	17
90°	0	0	0	0	0	



TEST NUMBER: P259040

CATALOG NUMBER: 14CZ-LD5-20-SQP-UNV-L83050-W2A1-U-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	450.9	450.9	450.9	450.9	450.9
2.5°	450.9	450.9	449.2	450.9	451.4
5°	449.6	449.6	447.9	449.6	449.6
7.5°	447.4	447.0	445.7	447.4	447.4
10°	444.0	444.0	442.2	444.4	444.0
12.5°	440.0	439.6	438.7	440.5	440.0
15°	434.8	434.8	433.5	435.3	434.8
17.5°	429.6	429.2	427.9	429.6	429.6
20°	422.2	421.8	421.3	423.1	423.5
22.5°	414.4	413.9	413.5	416.1	416.1
25°	405.7	405.7	405.2	407.8	408.3
27.5°	396.1	396.1	396.5	400.0	399.6
30°	386.1	386.1	386.9	389.6	389.6
32.5°	373.9	374.8	376.5	379.5	379.5
35°	362.1	363.0	365.2	368.7	368.7
37.5°	349.1	350.4	352.6	356.9	357.8
40°	336.0	336.9	339.5	344.3	344.3
42.5°	321.7	322.5	326.0	330.8	329.9
45°	305.6	308.2	312.5	315.1	311.2
47.5°	290.3	292.1	298.2	295.1	288.6
50°	272.9	276.4	282.5	271.6	265.5
52.5°	255.1	259.0	265.5	250.3	246.8
55°	237.2	242.0	244.2	231.6	228.1
57.5°	218.1	223.3	218.9	211.5	208.1
60°	198.9	205.0	198.5	191.5	189.3
62.5°	178.9	185.9	178.5	172.4	169.3
65°	157.6	167.1	158.4	152.3	149.7
67.5°	136.7	146.7	137.5	132.3	130.6
70°	117.1	122.7	118.4	113.2	109.7
72.5°	93.6	99.2	98.4	92.7	90.5
75°	74.4	79.7	77.9	73.1	70.9
77.5°	55.3	60.9	59.2	53.5	52.7
80°	39.6	43.5	40.5	35.3	33.5
82.5°	24.8	27.9	23.9	20.0	19.2
85°	13.1	13.9	11.3	10.0	9.6
87.5°	4.4	4.8	4.8	4.4	4.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)