

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: P259160

Luminaire Tested: **14CZ-LD5-20-SQP-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259160
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-L92765-W2A1-U-5500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1277.0 lumens
Efficiency: N/A
Efficacy: 80.8 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

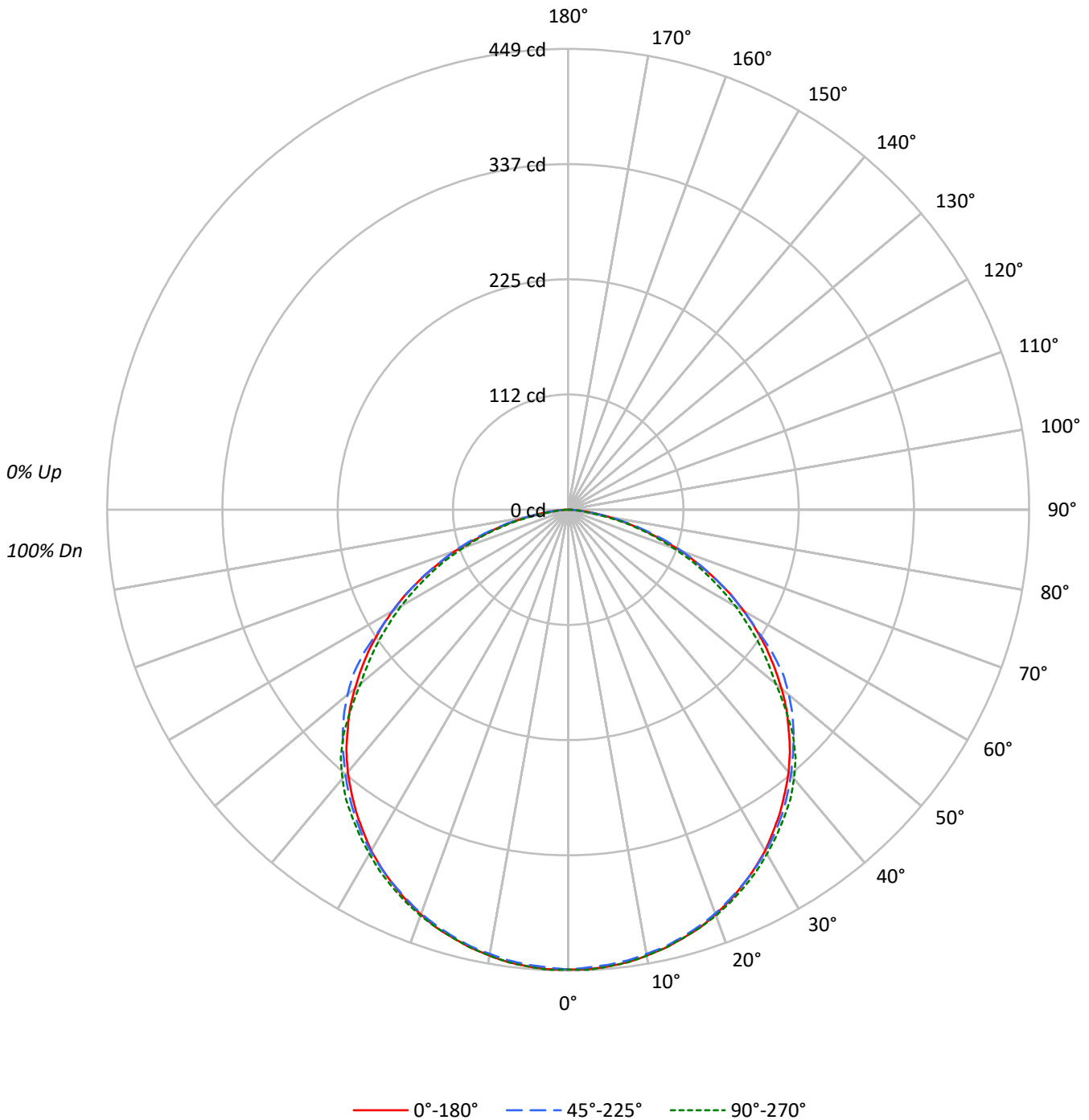
Input Watts (W): 15.81
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1206	1206	1206
5°	1207	1202	1207
10°	1206	1201	1206
15°	1204	1200	1204
20°	1202	1199	1205
25°	1197	1196	1205
30°	1192	1195	1203
35°	1182	1192	1204
40°	1173	1185	1202
45°	1156	1182	1177
50°	1135	1175	1105
55°	1106	1139	1064
60°	1064	1061	1013
65°	997	1002	947
70°	916	926	858
75°	769	805	733
80°	611	623	516
85°	401	346	293



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.4	3.3
10°-20°	122.0	9.6
20°-30°	186.2	14.6
30°-40°	227.2	17.8
40°-50°	237.6	18.6
50°-60°	210.4	16.5
60°-70°	154.9	12.1
70°-80°	80.2	6.3
80°-90°	16.0	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°	350.7	27.5
0°-40°	577.9	45.3
0°-60°	1025.9	80.3
0°-90°	1277.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1277.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	448	448	448	448	448	
5°	447	447	445	447	447	42
15°	432	432	431	432	432	122
25°	403	403	403	405	406	186
35°	360	361	363	366	366	225
45°	304	306	311	313	309	234
55°	236	240	243	230	227	210
65°	157	166	157	151	149	155
75°	74	79	77	73	70	79
85°	13	14	11	10	10	17
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	448.1	448.1	448.1	448.1	448.1
2.5°	448.1	448.1	446.4	448.1	448.6
5°	446.8	446.8	445.1	446.8	446.8
7.5°	444.7	444.2	442.9	444.7	444.7
10°	441.2	441.2	439.5	441.6	441.2
12.5°	437.3	436.9	436.0	437.7	437.3
15°	432.1	432.1	430.8	432.5	432.1
17.5°	426.9	426.5	425.2	426.9	426.9
20°	419.6	419.1	418.7	420.4	420.9
22.5°	411.8	411.4	410.9	413.5	413.5
25°	403.1	403.1	402.7	405.3	405.7
27.5°	393.6	393.6	394.1	397.5	397.1
30°	383.7	383.7	384.5	387.1	387.1
32.5°	371.6	372.4	374.2	377.2	377.2
35°	359.9	360.7	362.9	366.4	366.4
37.5°	346.9	348.2	350.4	354.7	355.6
40°	333.9	334.8	337.4	342.1	342.1
42.5°	319.7	320.5	324.0	328.7	327.9
45°	303.7	306.2	310.6	313.2	309.3
47.5°	288.5	290.2	296.3	293.3	286.8
50°	271.2	274.7	280.7	269.9	263.9
52.5°	253.5	257.4	263.9	248.7	245.3
55°	235.7	240.5	242.7	230.1	226.7
57.5°	216.7	221.9	217.6	210.2	206.8
60°	197.7	203.7	197.2	190.3	188.2
62.5°	177.8	184.7	177.3	171.3	168.3
65°	156.6	166.1	157.4	151.4	148.8
67.5°	135.8	145.8	136.7	131.5	129.8
70°	116.4	122.0	117.7	112.5	109.0
72.5°	93.0	98.6	97.8	92.1	90.0
75°	74.0	79.2	77.4	72.7	70.5
77.5°	54.9	60.6	58.8	53.2	52.3
80°	39.4	43.3	40.2	35.0	33.3
82.5°	24.7	27.7	23.8	19.9	19.0
85°	13.0	13.8	11.2	9.9	9.5
87.5°	4.3	4.8	4.8	4.3	4.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)