

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: P275557

Luminaire Tested: **14CZ2-20-S-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275557
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-40)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-20-S-UNV-L83050-W2A1-U-3500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2100.0 lumens
Efficiency: N/A
Efficacy: 136.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

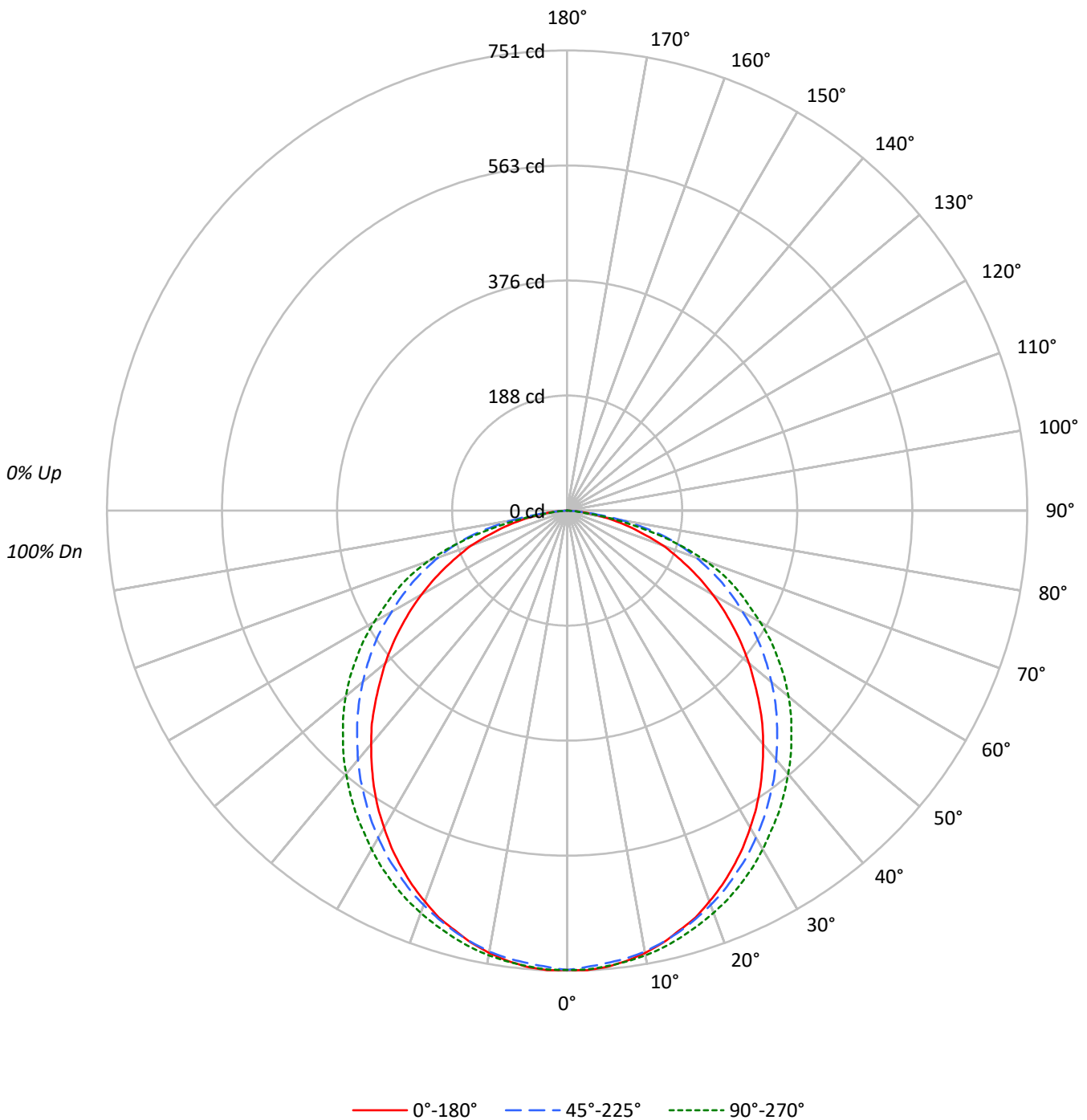
Input Watts (W): 15.345
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P275557

CATALOG NUMBER: 14CZ2-20-S-UNV-L83050-W2A1-U-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P275557

CATALOG NUMBER: 14CZ2-20-S-UNV-L83050-W2A1-U-3500K

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	94	97	94	91	94	91	89	90	88	86	84
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	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	28	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°	2017	2017	2017
5°	2019	2002	2016
10°	2003	1997	2014
15°	1975	1981	2007
20°	1944	1962	2001
25°	1904	1938	1994
30°	1857	1915	1983
35°	1806	1888	1977
40°	1748	1865	1971
45°	1684	1843	1969
50°	1621	1822	1975
55°	1553	1807	1969
60°	1480	1782	1956
65°	1393	1777	1956
70°	1311	1762	1901
75°	1136	1722	1624
80°	919	1387	1082
85°	611	482	321



TEST NUMBER: P275557

CATALOG NUMBER: 14CZ2-20-S-UNV-L83050-W2A1-U-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.8	3.4
10°-20°	201.4	9.6
20°-30°	302.2	14.4
30°-40°	360.4	17.2
40°-50°	372.6	17.7
50°-60°	340.2	16.2
60°-70°	267.7	12.7
70°-80°	155.9	7.4
80°-90°	28.7	1.4
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°	574.4	27.4
0°-40°	934.8	44.5
0°-60°	1647.7	78.5
0°-90°	2100.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2100.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	750	750	750	750	750	
5°	748	746	741	748	746	71
15°	709	710	711	720	720	200
25°	641	644	653	668	672	295
35°	550	557	575	597	602	344
45°	442	457	484	511	518	342
55°	331	349	385	413	420	296
65°	219	242	279	301	307	217
75°	109	135	166	162	156	116
85°	20	28	16	12	10	26
90°	0	0	0	0	0	



TEST NUMBER: P275557

CATALOG NUMBER: 14CZ2-20-S-UNV-L83050-W2A1-U-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	749.7	749.7	749.7	749.7	749.7
2.5°	750.7	748.6	745.5	750.7	749.7
5°	747.6	745.5	741.3	747.6	746.5
7.5°	741.3	739.3	737.2	743.4	742.4
10°	733.0	732.0	730.9	738.2	737.2
12.5°	722.6	722.6	721.6	729.9	729.9
15°	709.1	710.1	711.1	720.5	720.5
17.5°	696.6	695.5	698.6	709.1	710.1
20°	678.9	680.9	685.1	697.6	698.6
22.5°	661.2	663.2	670.5	683.0	686.2
25°	641.4	644.5	652.8	668.5	671.6
27.5°	620.6	624.7	636.2	652.8	656.0
30°	597.6	603.9	616.4	635.1	638.3
32.5°	574.7	581.0	596.6	615.4	619.5
35°	549.8	557.0	574.7	596.6	601.8
37.5°	523.7	533.1	553.9	575.8	582.0
40°	497.7	508.1	531.0	553.9	561.2
42.5°	471.7	482.1	507.1	533.1	540.4
45°	442.5	457.1	484.2	511.2	517.5
47.5°	414.4	430.0	460.2	487.3	495.6
50°	387.3	402.9	435.2	463.3	471.7
52.5°	359.2	375.9	410.2	439.4	446.7
55°	331.1	348.8	385.2	413.4	419.6
57.5°	303.0	321.7	359.2	386.3	393.6
60°	274.9	294.7	331.1	358.2	363.4
62.5°	246.8	267.6	305.1	329.0	334.2
65°	218.7	241.6	279.0	300.9	307.2
67.5°	191.6	214.5	250.9	271.8	277.0
70°	166.6	187.4	223.9	239.5	241.6
72.5°	135.4	161.4	196.8	205.1	199.9
75°	109.3	135.4	165.6	162.4	156.2
77.5°	83.3	109.3	129.1	118.7	110.4
80°	59.3	85.4	89.5	73.9	69.8
82.5°	38.5	59.3	50.0	38.5	31.2
85°	19.8	28.1	15.6	12.5	10.4
87.5°	6.2	4.2	2.1	2.1	1.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)