

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: P259178

Luminaire Tested: **14CZ-LD5-29-SQP-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259178
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-LD5-29-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: 1780.0 lumens
Efficiency: N/A
Efficacy: 78.1 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.29 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

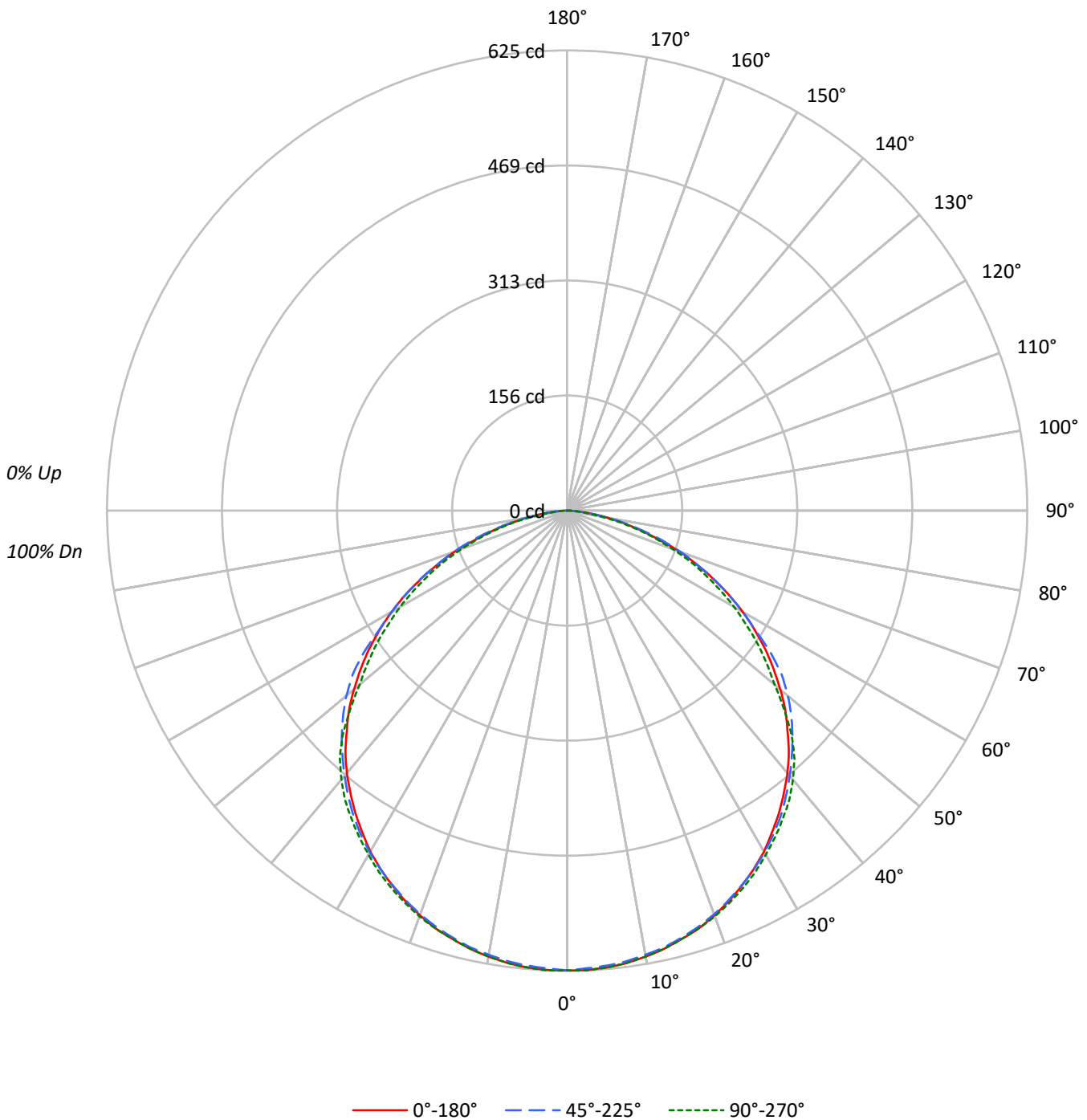
Input Watts (W): 22.785
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1681	1681	1681
5°	1682	1676	1682
10°	1680	1674	1680
15°	1678	1673	1678
20°	1675	1671	1680
25°	1668	1667	1679
30°	1662	1665	1677
35°	1648	1662	1678
40°	1635	1652	1675
45°	1611	1647	1641
50°	1582	1638	1540
55°	1542	1587	1482
60°	1483	1480	1412
65°	1390	1398	1321
70°	1276	1290	1195
75°	1072	1122	1022
80°	851	869	719
85°	559	485	411



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.1	3.3
10°-20°	170.0	9.6
20°-30°	259.6	14.6
30°-40°	316.7	17.8
40°-50°	331.2	18.6
50°-60°	293.2	16.5
60°-70°	215.9	12.1
70°-80°	111.8	6.3
80°-90°	22.3	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°	488.8	27.5
0°-40°	805.5	45.3
0°-60°	1430.0	80.3
0°-90°	1780.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1780.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	625	625	625	625	625	
5°	623	623	620	623	623	59
15°	602	602	600	603	602	170
25°	562	562	561	565	566	259
35°	502	503	506	511	511	314
45°	423	427	433	436	431	327
55°	329	335	338	321	316	293
65°	218	232	220	211	207	216
75°	103	110	108	101	98	110
85°	18	19	16	14	13	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	624.6	624.6	624.6	624.6	624.6
2.5°	624.6	624.6	622.2	624.6	625.2
5°	622.8	622.8	620.4	622.8	622.8
7.5°	619.8	619.2	617.4	619.8	619.8
10°	615.0	615.0	612.6	615.6	615.0
12.5°	609.6	609.0	607.8	610.2	609.6
15°	602.3	602.3	600.5	602.9	602.3
17.5°	595.1	594.5	592.7	595.1	595.1
20°	584.8	584.2	583.6	586.0	586.6
22.5°	574.0	573.4	572.8	576.4	576.4
25°	561.9	561.9	561.3	564.9	565.5
27.5°	548.7	548.7	549.3	554.1	553.5
30°	534.8	534.8	536.0	539.6	539.6
32.5°	517.9	519.1	521.5	525.8	525.8
35°	501.6	502.8	505.9	510.7	510.7
37.5°	483.5	485.4	488.4	494.4	495.6
40°	465.5	466.7	470.3	476.9	476.9
42.5°	445.6	446.8	451.6	458.2	457.0
45°	423.3	426.9	432.9	436.5	431.1
47.5°	402.2	404.6	413.0	408.8	399.7
50°	378.0	382.9	391.3	376.2	367.8
52.5°	353.3	358.7	367.8	346.7	341.9
55°	328.6	335.2	338.2	320.8	315.9
57.5°	302.1	309.3	303.3	293.0	288.2
60°	275.5	284.0	274.9	265.3	262.3
62.5°	247.8	257.5	247.2	238.8	234.5
65°	218.3	231.5	219.5	211.0	207.4
67.5°	189.3	203.2	190.5	183.3	180.9
70°	162.2	170.0	164.0	156.8	151.9
72.5°	129.6	137.5	136.3	128.4	125.4
75°	103.1	110.3	107.9	101.3	98.3
77.5°	76.6	84.4	82.0	74.2	73.0
80°	54.9	60.3	56.1	48.8	46.4
82.5°	34.4	38.6	33.2	27.7	26.5
85°	18.1	19.3	15.7	13.9	13.3
87.5°	6.0	6.6	6.6	6.0	6.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)