

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: P258949

Luminaire Tested: **14CZ-LD5-25-RDP-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258949
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35909)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-25-RDP-UNV-L82765-W2A1-U-6500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1724.0 lumens
Efficiency: N/A
Efficacy: 90.4 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

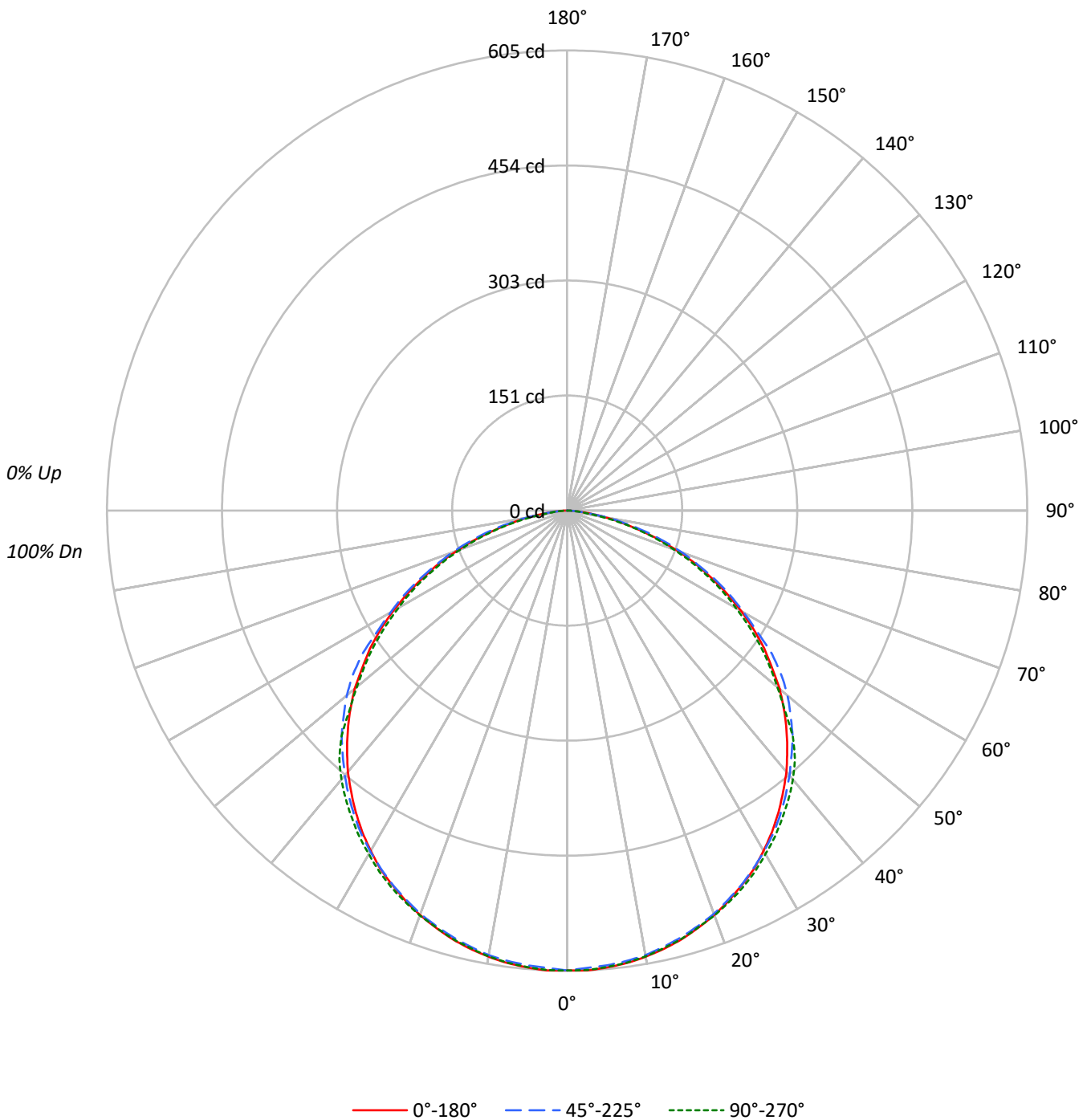
Input Watts (W): 19.065
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	51	46	56	50	46	44
6	70	57	48	42	68	56	47	41	54	47	41	52	46	41	51	45	40	38
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34
8	61	47	38	33	59	46	38	33	45	38	32	44	37	32	43	36	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	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1627	1627	1627
5°	1629	1621	1627
10°	1627	1621	1626
15°	1625	1617	1623
20°	1620	1616	1622
25°	1613	1612	1623
30°	1605	1608	1620
35°	1591	1604	1621
40°	1575	1597	1623
45°	1552	1595	1597
50°	1527	1583	1510
55°	1484	1542	1455
60°	1421	1442	1379
65°	1331	1366	1295
70°	1212	1260	1172
75°	1011	1104	993
80°	801	845	688
85°	522	451	398



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.2	3.3
10°-20°	164.4	9.5
20°-30°	251.0	14.6
30°-40°	306.0	17.7
40°-50°	320.4	18.6
50°-60°	285.0	16.5
60°-70°	210.3	12.2
70°-80°	108.7	6.3
80°-90°	21.1	1.2
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°	472.6	27.4
0°-40°	778.6	45.2
0°-60°	1384.0	80.3
0°-90°	1724.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1724.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	605	605	605	605	605	
5°	603	602	600	602	602	57
15°	583	583	580	583	583	165
25°	543	543	543	547	547	251
35°	484	485	488	494	493	303
45°	408	411	419	423	420	315
55°	316	323	329	315	310	282
65°	209	224	215	207	203	207
75°	97	107	106	98	96	105
85°	17	18	15	14	13	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	604.6	604.6	604.6	604.6	604.6
2.5°	605.2	604.6	601.8	604.6	604.6
5°	602.9	602.4	600.1	602.4	602.4
7.5°	600.1	599.6	597.3	599.6	599.6
10°	595.6	595.1	593.4	595.6	595.1
12.5°	590.0	590.0	587.2	590.0	588.9
15°	583.3	582.7	580.5	582.7	582.7
17.5°	574.8	574.3	572.6	575.4	574.3
20°	565.8	565.3	564.2	567.0	566.4
22.5°	555.2	555.2	553.5	556.9	556.9
25°	543.4	543.4	542.8	546.7	546.7
27.5°	531.6	530.4	530.4	534.4	534.9
30°	516.4	516.4	517.5	522.0	521.5
32.5°	501.2	501.8	504.0	508.0	508.5
35°	484.4	484.9	488.3	493.9	493.4
37.5°	466.4	468.1	472.0	478.2	478.2
40°	448.4	449.5	454.6	461.3	461.9
42.5°	428.2	431.0	436.6	444.5	443.3
45°	407.9	410.8	419.2	423.1	419.7
47.5°	386.6	390.0	398.4	399.0	387.7
50°	364.7	368.6	378.2	366.9	360.7
52.5°	339.4	346.7	355.1	339.4	335.5
55°	316.4	323.1	328.7	314.7	310.2
57.5°	290.5	299.5	295.6	288.8	283.2
60°	264.1	273.6	268.0	261.3	256.2
62.5°	237.1	247.8	242.2	235.4	230.9
65°	209.0	223.6	214.6	207.3	203.4
67.5°	182.6	196.7	186.0	180.4	176.4
70°	154.0	165.8	160.1	152.8	148.9
72.5°	125.9	134.9	133.2	125.3	122.5
75°	97.2	107.3	106.2	97.8	95.5
77.5°	73.0	82.6	79.2	72.5	69.7
80°	51.7	57.9	54.5	46.6	44.4
82.5°	31.5	36.5	30.9	26.4	24.2
85°	16.9	18.5	14.6	13.5	12.9
87.5°	6.2	6.2	6.2	5.6	5.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)