

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: P259175

Luminaire Tested: **14CZ-LD5-29-SQP-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259175
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-4000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1675.0 lumens
Efficiency: N/A
Efficacy: 74.7 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

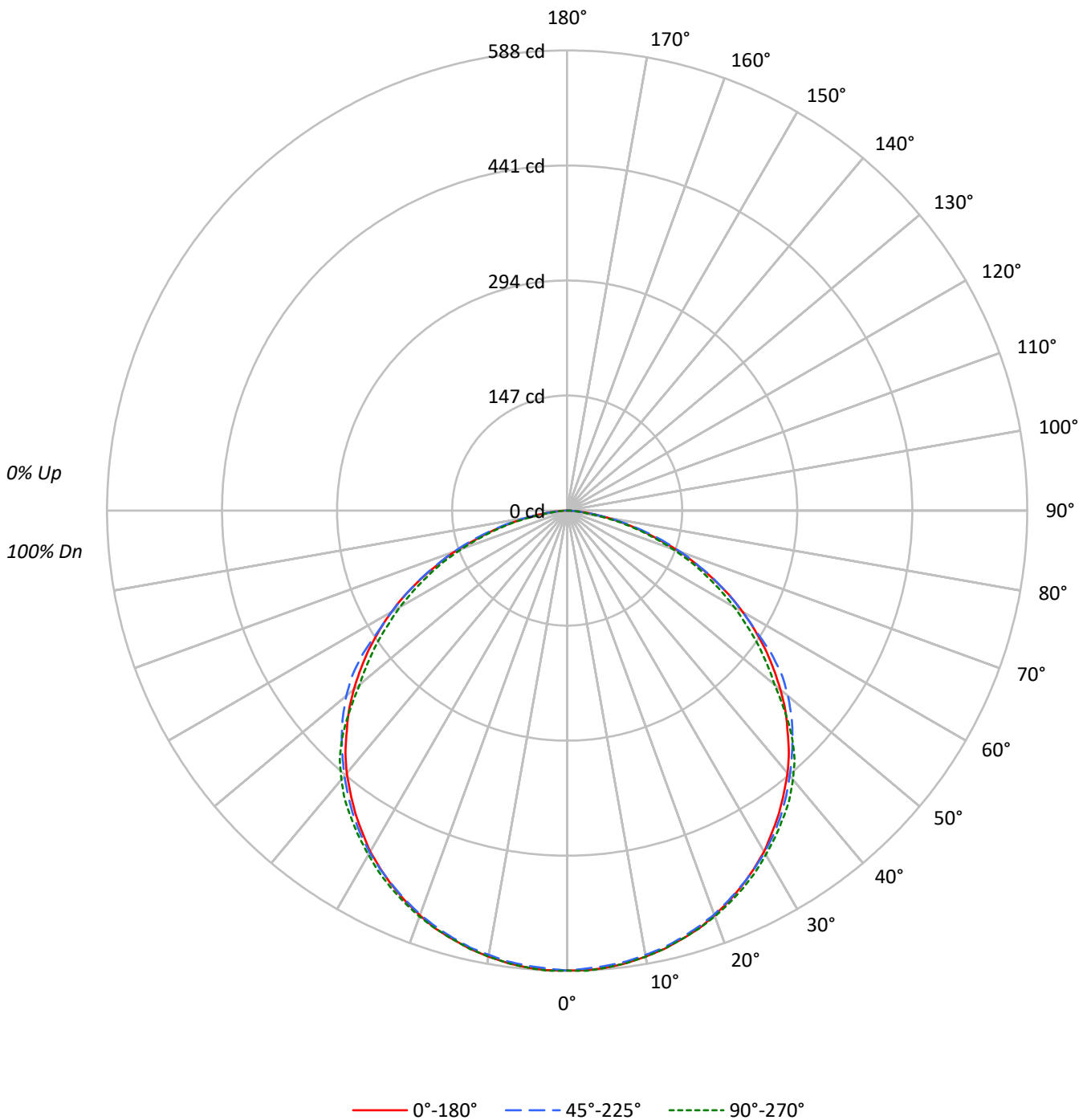
Input Watts (W): 22.413
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1582	1582	1582
5°	1583	1577	1583
10°	1581	1575	1581
15°	1579	1574	1579
20°	1576	1573	1581
25°	1570	1568	1580
30°	1564	1567	1578
35°	1551	1564	1579
40°	1539	1554	1577
45°	1516	1550	1544
50°	1489	1541	1449
55°	1451	1493	1395
60°	1396	1392	1328
65°	1308	1315	1243
70°	1201	1214	1125
75°	1009	1056	962
80°	800	818	677
85°	525	457	386



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.7	3.3
10°-20°	160.0	9.6
20°-30°	244.3	14.6
30°-40°	298.1	17.8
40°-50°	311.7	18.6
50°-60°	275.9	16.5
60°-70°	203.2	12.1
70°-80°	105.2	6.3
80°-90°	21.0	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°	460.0	27.5
0°-40°	758.0	45.3
0°-60°	1345.6	80.3
0°-90°	1675.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1675.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	588	588	588	588	588	
5°	586	586	584	586	586	56
15°	567	567	565	567	567	160
25°	529	529	528	532	532	244
35°	472	473	476	481	481	295
45°	398	402	407	411	406	308
55°	309	316	318	302	297	276
65°	205	218	206	199	195	203
75°	97	104	102	95	92	104
85°	17	18	15	13	12	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	587.8	587.8	587.8	587.8	587.8
2.5°	587.8	587.8	585.5	587.8	588.4
5°	586.1	586.1	583.8	586.1	586.1
7.5°	583.2	582.7	581.0	583.2	583.2
10°	578.7	578.7	576.4	579.3	578.7
12.5°	573.6	573.0	571.9	574.2	573.6
15°	566.8	566.8	565.1	567.4	566.8
17.5°	560.0	559.4	557.7	560.0	560.0
20°	550.3	549.8	549.2	551.5	552.0
22.5°	540.1	539.6	539.0	542.4	542.4
25°	528.8	528.8	528.2	531.6	532.2
27.5°	516.3	516.3	516.9	521.4	520.8
30°	503.2	503.2	504.4	507.8	507.8
32.5°	487.4	488.5	490.8	494.7	494.7
35°	472.0	473.2	476.0	480.6	480.6
37.5°	455.0	456.7	459.6	465.2	466.4
40°	438.0	439.1	442.5	448.8	448.8
42.5°	419.3	420.4	425.0	431.2	430.1
45°	398.3	401.7	407.4	410.8	405.7
47.5°	378.4	380.7	388.6	384.7	376.2
50°	355.7	360.3	368.2	354.0	346.1
52.5°	332.5	337.6	346.1	326.2	321.7
55°	309.2	315.5	318.3	301.8	297.3
57.5°	284.2	291.1	285.4	275.7	271.2
60°	259.3	267.2	258.7	249.6	246.8
62.5°	233.2	242.3	232.6	224.7	220.7
65°	205.4	217.9	206.5	198.6	195.2
67.5°	178.2	191.2	179.3	172.5	170.2
70°	152.6	160.0	154.3	147.5	143.0
72.5°	122.0	129.4	128.2	120.8	118.0
75°	97.0	103.8	101.6	95.3	92.5
77.5°	72.1	79.4	77.2	69.8	68.7
80°	51.6	56.7	52.8	46.0	43.7
82.5°	32.3	36.3	31.2	26.1	25.0
85°	17.0	18.2	14.8	13.0	12.5
87.5°	5.7	6.2	6.2	5.7	5.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)