

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: P259049

Luminaire Tested: **14CZ-LD5-25-SQP-UNV-L83050-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259049
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-LD5-25-SQP-UNV-L83050-W2A1-U-5000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1682.0 lumens
Efficiency: N/A
Efficacy: 87.8 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

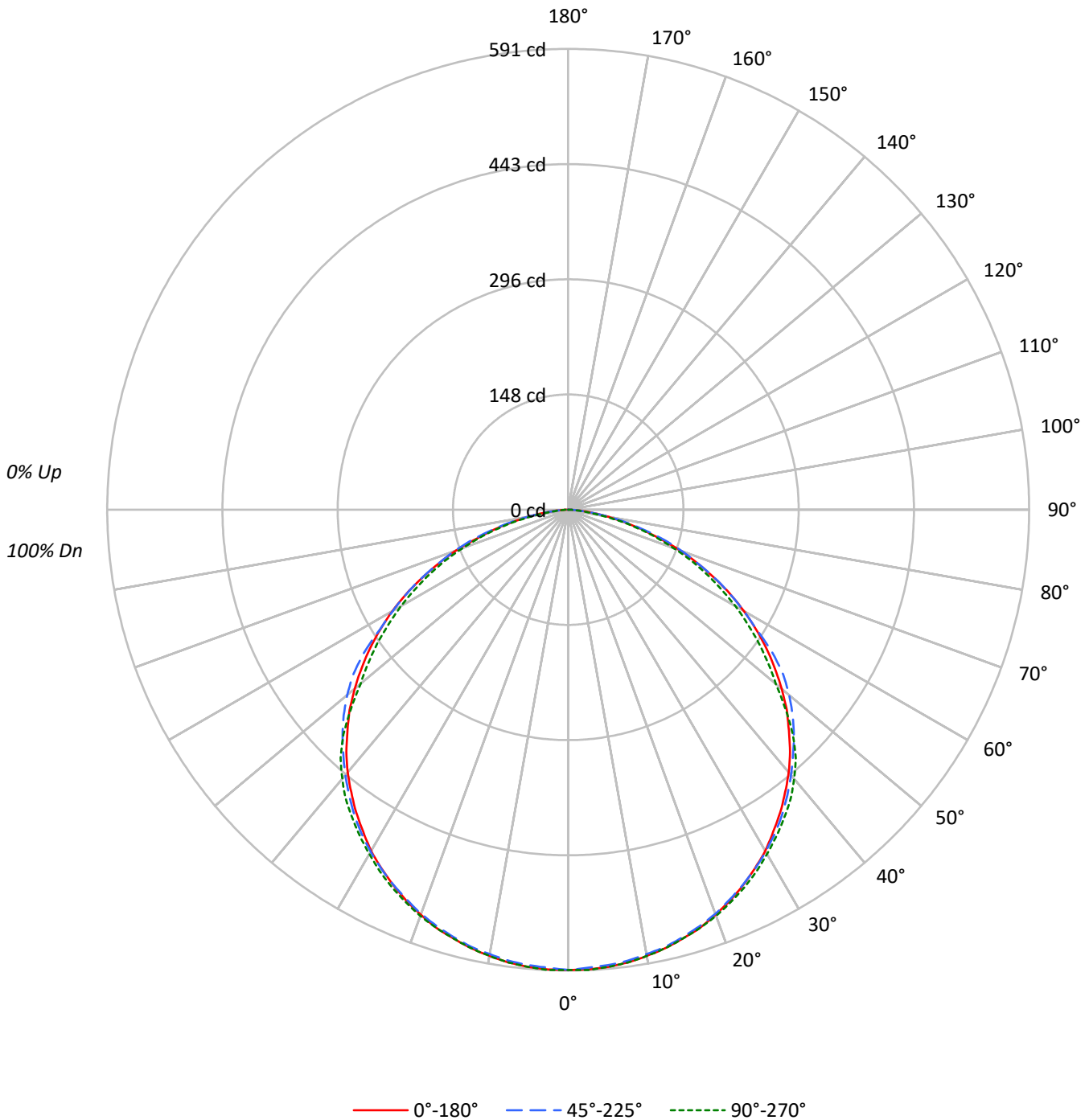
Input Watts (W): 19.158
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1588	1588	1588
5°	1590	1584	1590
10°	1588	1582	1588
15°	1586	1581	1586
20°	1582	1579	1588
25°	1577	1575	1587
30°	1570	1574	1584
35°	1557	1570	1585
40°	1545	1561	1583
45°	1522	1557	1550
50°	1495	1548	1455
55°	1457	1499	1400
60°	1401	1398	1334
65°	1313	1321	1248
70°	1206	1220	1130
75°	1013	1061	966
80°	803	821	680
85°	528	457	386



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.9	3.3
10°-20°	160.7	9.6
20°-30°	245.3	14.6
30°-40°	299.3	17.8
40°-50°	313.0	18.6
50°-60°	277.1	16.5
60°-70°	204.0	12.1
70°-80°	105.7	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°	461.9	27.5
0°-40°	761.2	45.3
0°-60°	1351.3	80.3
0°-90°	1682.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1682.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	590	590	590	590	590	
5°	588	588	586	588	588	56
15°	569	569	568	570	569	161
25°	531	531	530	534	534	245
35°	474	475	478	483	483	296
45°	400	403	409	412	407	309
55°	310	317	320	303	298	277
65°	206	219	207	199	196	204
75°	97	104	102	96	93	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°	590.2	590.2	590.2	590.2	590.2
2.5°	590.2	590.2	588.0	590.2	590.8
5°	588.5	588.5	586.3	588.5	588.5
7.5°	585.7	585.1	583.4	585.7	585.7
10°	581.1	581.1	578.8	581.7	581.1
12.5°	576.0	575.4	574.3	576.6	576.0
15°	569.2	569.2	567.5	569.7	569.2
17.5°	562.3	561.8	560.0	562.3	562.3
20°	552.6	552.1	551.5	553.8	554.4
22.5°	542.4	541.8	541.2	544.7	544.7
25°	531.0	531.0	530.4	533.8	534.4
27.5°	518.5	518.5	519.0	523.6	523.0
30°	505.4	505.4	506.5	509.9	509.9
32.5°	489.4	490.5	492.8	496.8	496.8
35°	474.0	475.2	478.0	482.6	482.6
37.5°	456.9	458.6	461.5	467.2	468.3
40°	439.8	441.0	444.4	450.7	450.7
42.5°	421.0	422.2	426.7	433.0	431.9
45°	400.0	403.4	409.1	412.5	407.4
47.5°	380.0	382.3	390.3	386.3	377.7
50°	357.2	361.8	369.8	355.5	347.5
52.5°	333.9	339.0	347.5	327.6	323.0
55°	310.5	316.8	319.6	303.1	298.5
57.5°	285.4	292.3	286.6	276.9	272.3
60°	260.4	268.3	259.8	250.7	247.8
62.5°	234.2	243.3	233.6	225.6	221.6
65°	206.2	218.8	207.4	199.4	196.0
67.5°	178.9	192.0	180.0	173.2	170.9
70°	153.3	160.7	155.0	148.1	143.6
72.5°	122.5	129.9	128.8	121.4	118.5
75°	97.4	104.3	102.0	95.7	92.9
77.5°	72.4	79.8	77.5	70.1	68.9
80°	51.8	57.0	53.0	46.1	43.9
82.5°	32.5	36.5	31.3	26.2	25.1
85°	17.1	18.2	14.8	13.1	12.5
87.5°	5.7	6.3	6.3	5.7	5.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)