

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: P259075

Luminaire Tested: **14CZ-LD5-25-SQP-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259075
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-L93050-W2A1-U-3000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1235.0 lumens
Efficiency: N/A
Efficacy: 66.1 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

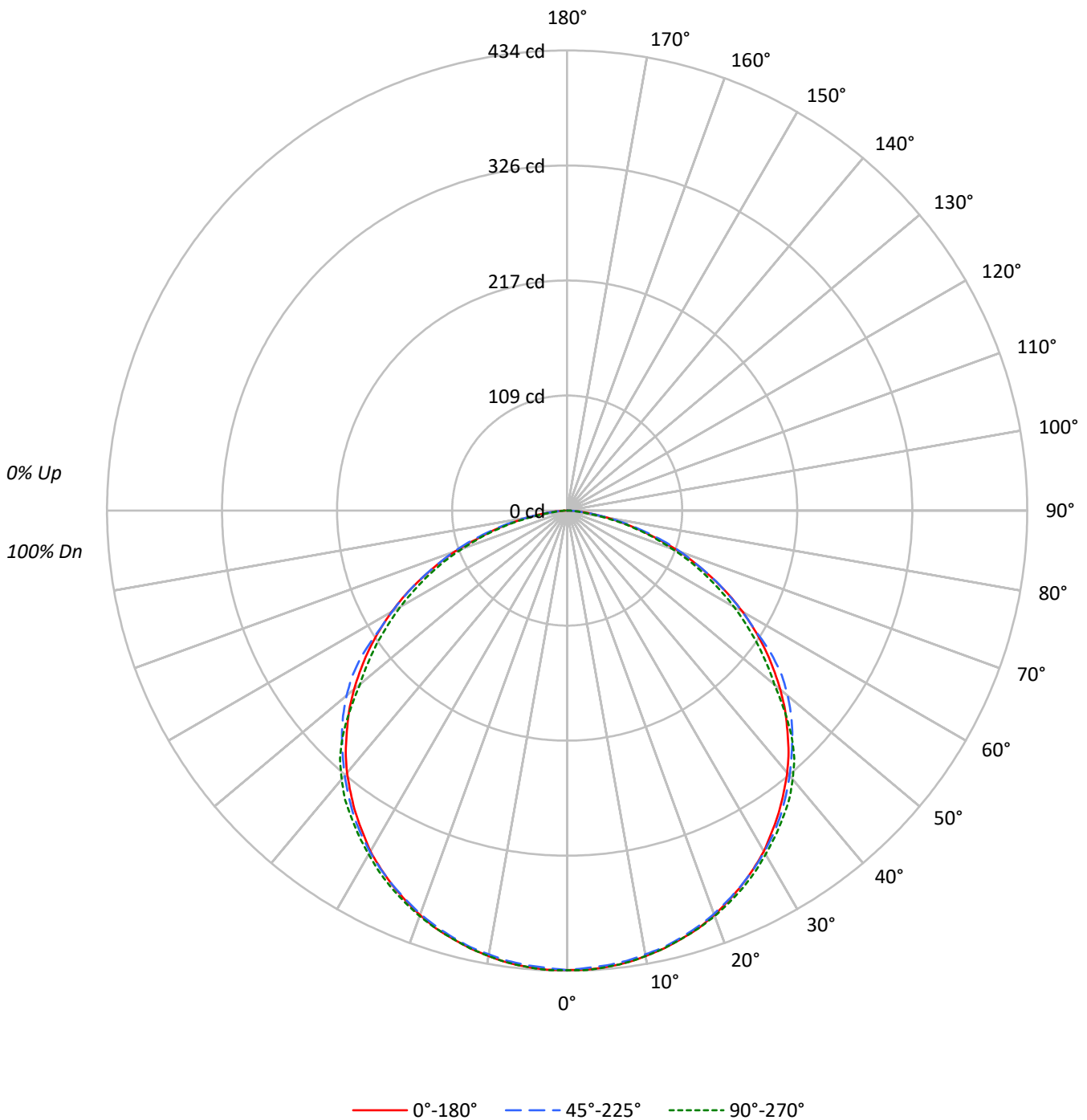
Input Watts (W): 18.693
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1166	1166	1166
5°	1167	1163	1167
10°	1166	1161	1166
15°	1164	1161	1164
20°	1162	1160	1166
25°	1158	1156	1165
30°	1153	1156	1163
35°	1143	1153	1164
40°	1134	1146	1162
45°	1118	1143	1138
50°	1098	1137	1068
55°	1070	1101	1028
60°	1029	1027	980
65°	964	970	916
70°	885	895	829
75°	743	779	709
80°	590	603	499
85°	386	337	284



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.0	3.3
10°-20°	118.0	9.6
20°-30°	180.1	14.6
30°-40°	219.8	17.8
40°-50°	229.8	18.6
50°-60°	203.5	16.5
60°-70°	149.8	12.1
70°-80°	77.6	6.3
80°-90°	15.5	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°	339.1	27.5
0°-40°	558.9	45.3
0°-60°	992.2	80.3
0°-90°	1235.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1235.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	433	433	433	433	433	
5°	432	432	430	432	432	41
15°	418	418	417	418	418	118
25°	390	390	390	392	392	180
35°	348	349	351	354	354	218
45°	294	296	300	303	299	227
55°	228	233	235	222	219	203
65°	151	161	152	146	144	150
75°	72	77	75	70	68	76
85°	12	13	11	10	9	16
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	433.4	433.4	433.4	433.4	433.4
2.5°	433.4	433.4	431.7	433.4	433.8
5°	432.1	432.1	430.5	432.1	432.1
7.5°	430.0	429.6	428.4	430.0	430.0
10°	426.7	426.7	425.0	427.1	426.7
12.5°	422.9	422.5	421.7	423.3	422.9
15°	417.9	417.9	416.7	418.3	417.9
17.5°	412.9	412.5	411.2	412.9	412.9
20°	405.8	405.4	404.9	406.6	407.0
22.5°	398.2	397.8	397.4	399.9	399.9
25°	389.9	389.9	389.5	392.0	392.4
27.5°	380.7	380.7	381.1	384.4	384.0
30°	371.1	371.1	371.9	374.4	374.4
32.5°	359.3	360.2	361.8	364.8	364.8
35°	348.0	348.9	351.0	354.3	354.3
37.5°	335.5	336.8	338.8	343.0	343.9
40°	322.9	323.8	326.3	330.9	330.9
42.5°	309.1	310.0	313.3	317.9	317.1
45°	293.7	296.2	300.4	302.9	299.1
47.5°	279.0	280.7	286.6	283.6	277.3
50°	262.3	265.6	271.5	261.0	255.2
52.5°	245.1	248.9	255.2	240.5	237.2
55°	228.0	232.6	234.7	222.5	219.2
57.5°	209.6	214.6	210.4	203.3	200.0
60°	191.2	197.0	190.8	184.1	182.0
62.5°	171.9	178.6	171.5	165.7	162.7
65°	151.4	160.6	152.3	146.4	143.9
67.5°	131.4	141.0	132.2	127.2	125.5
70°	112.5	118.0	113.8	108.8	105.4
72.5°	89.9	95.4	94.5	89.1	87.0
75°	71.5	76.6	74.9	70.3	68.2
77.5°	53.1	58.6	56.9	51.5	50.6
80°	38.1	41.8	38.9	33.9	32.2
82.5°	23.8	26.8	23.0	19.2	18.4
85°	12.5	13.4	10.9	9.6	9.2
87.5°	4.2	4.6	4.6	4.2	4.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)