

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: P259167

Luminaire Tested: **14CZ-LD5-25-SQP-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259167
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-L92765-W2A1-U-4500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1438.0 lumens
Efficiency: N/A
Efficacy: 77.3 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

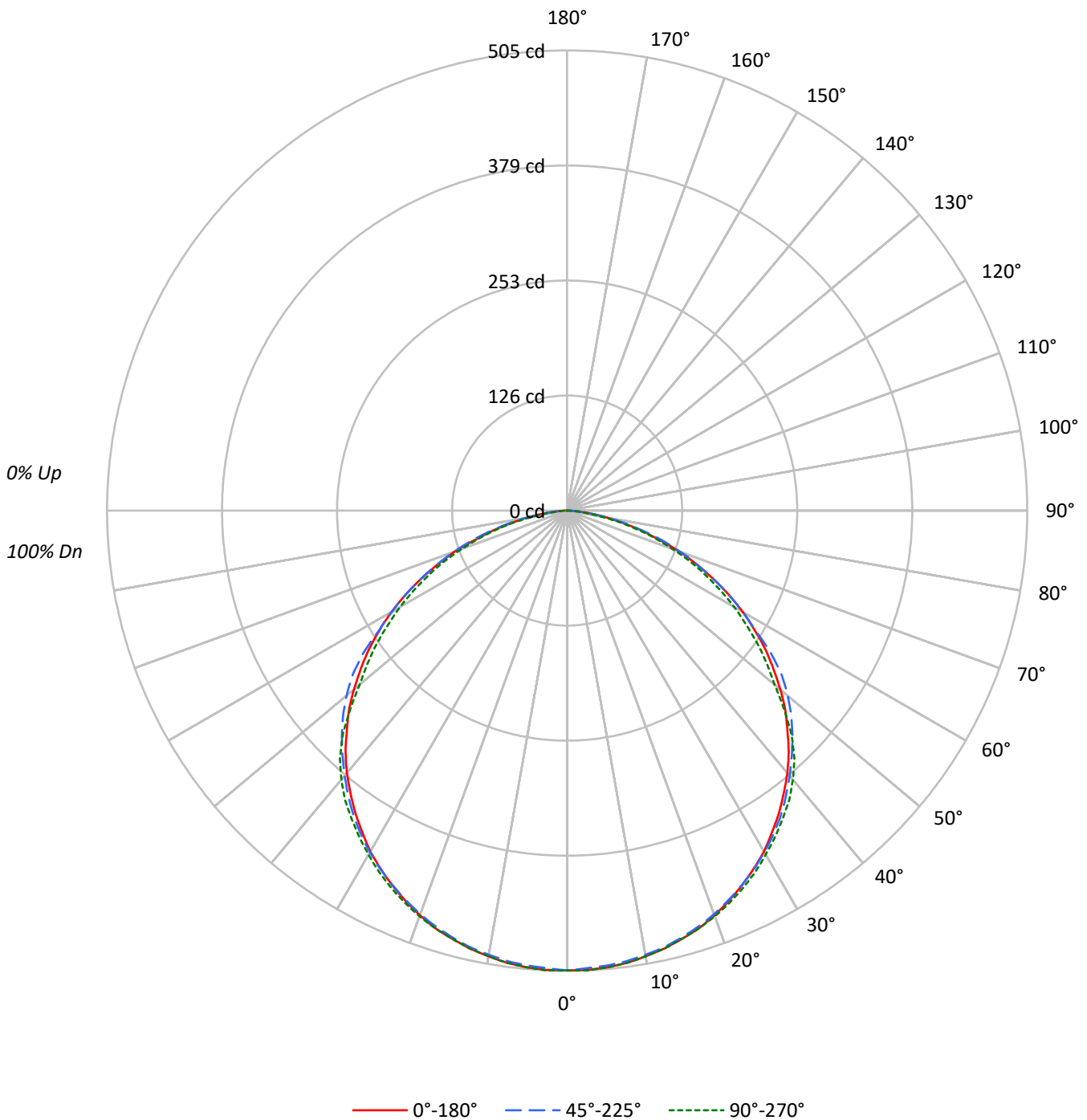
Input Watts (W): 18.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1358	1358	1358
5°	1359	1354	1359
10°	1358	1352	1358
15°	1356	1351	1356
20°	1353	1350	1357
25°	1348	1347	1357
30°	1342	1345	1354
35°	1331	1343	1355
40°	1321	1335	1353
45°	1301	1331	1325
50°	1279	1323	1244
55°	1246	1282	1197
60°	1198	1195	1140
65°	1123	1129	1067
70°	1031	1042	965
75°	866	907	826
80°	687	702	581
85°	451	392	330



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.8	3.3
10°-20°	137.4	9.6
20°-30°	209.7	14.6
30°-40°	255.9	17.8
40°-50°	267.6	18.6
50°-60°	236.9	16.5
60°-70°	174.4	12.1
70°-80°	90.3	6.3
80°-90°	18.0	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°	394.9	27.5
0°-40°	650.8	45.3
0°-60°	1155.2	80.3
0°-90°	1438.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1438.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	505	505	505	505	505	
5°	503	503	501	503	503	48
15°	487	487	485	487	487	137
25°	454	454	454	456	457	209
35°	405	406	409	413	413	253
45°	342	345	350	353	348	264
55°	266	271	273	259	255	237
65°	176	187	177	170	168	175
75°	83	89	87	82	79	89
85°	15	16	13	11	11	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	504.6	504.6	504.6	504.6	504.6
2.5°	504.6	504.6	502.7	504.6	505.1
5°	503.2	503.2	501.2	503.2	503.2
7.5°	500.7	500.2	498.8	500.7	500.7
10°	496.8	496.8	494.9	497.3	496.8
12.5°	492.4	492.0	491.0	492.9	492.4
15°	486.6	486.6	485.1	487.1	486.6
17.5°	480.8	480.3	478.8	480.8	480.8
20°	472.5	472.0	471.5	473.4	473.9
22.5°	463.7	463.2	462.7	465.7	465.7
25°	454.0	454.0	453.5	456.4	456.9
27.5°	443.2	443.2	443.7	447.6	447.1
30°	432.0	432.0	433.0	435.9	435.9
32.5°	418.4	419.4	421.3	424.7	424.7
35°	405.3	406.2	408.7	412.6	412.6
37.5°	390.6	392.1	394.5	399.4	400.4
40°	376.0	377.0	379.9	385.3	385.3
42.5°	360.0	360.9	364.8	370.2	369.2
45°	341.9	344.9	349.7	352.6	348.3
47.5°	324.9	326.8	333.7	330.2	322.9
50°	305.4	309.3	316.1	303.9	297.1
52.5°	285.4	289.8	297.1	280.1	276.2
55°	265.5	270.8	273.3	259.1	255.2
57.5°	244.0	249.9	245.0	236.7	232.8
60°	222.6	229.4	222.1	214.3	211.9
62.5°	200.2	208.0	199.7	192.9	189.5
65°	176.3	187.0	177.3	170.5	167.6
67.5°	152.9	164.1	153.9	148.1	146.1
70°	131.0	137.4	132.5	126.6	122.7
72.5°	104.7	111.1	110.1	103.7	101.3
75°	83.3	89.1	87.2	81.8	79.4
77.5°	61.9	68.2	66.2	59.9	58.9
80°	44.3	48.7	45.3	39.5	37.5
82.5°	27.8	31.2	26.8	22.4	21.4
85°	14.6	15.6	12.7	11.2	10.7
87.5°	4.9	5.4	5.4	4.9	4.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)