

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: P259166

Luminaire Tested: **14CZ-LD5-25-SQP-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259166
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-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: 1402.0 lumens
Efficiency: N/A
Efficacy: 76.1 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

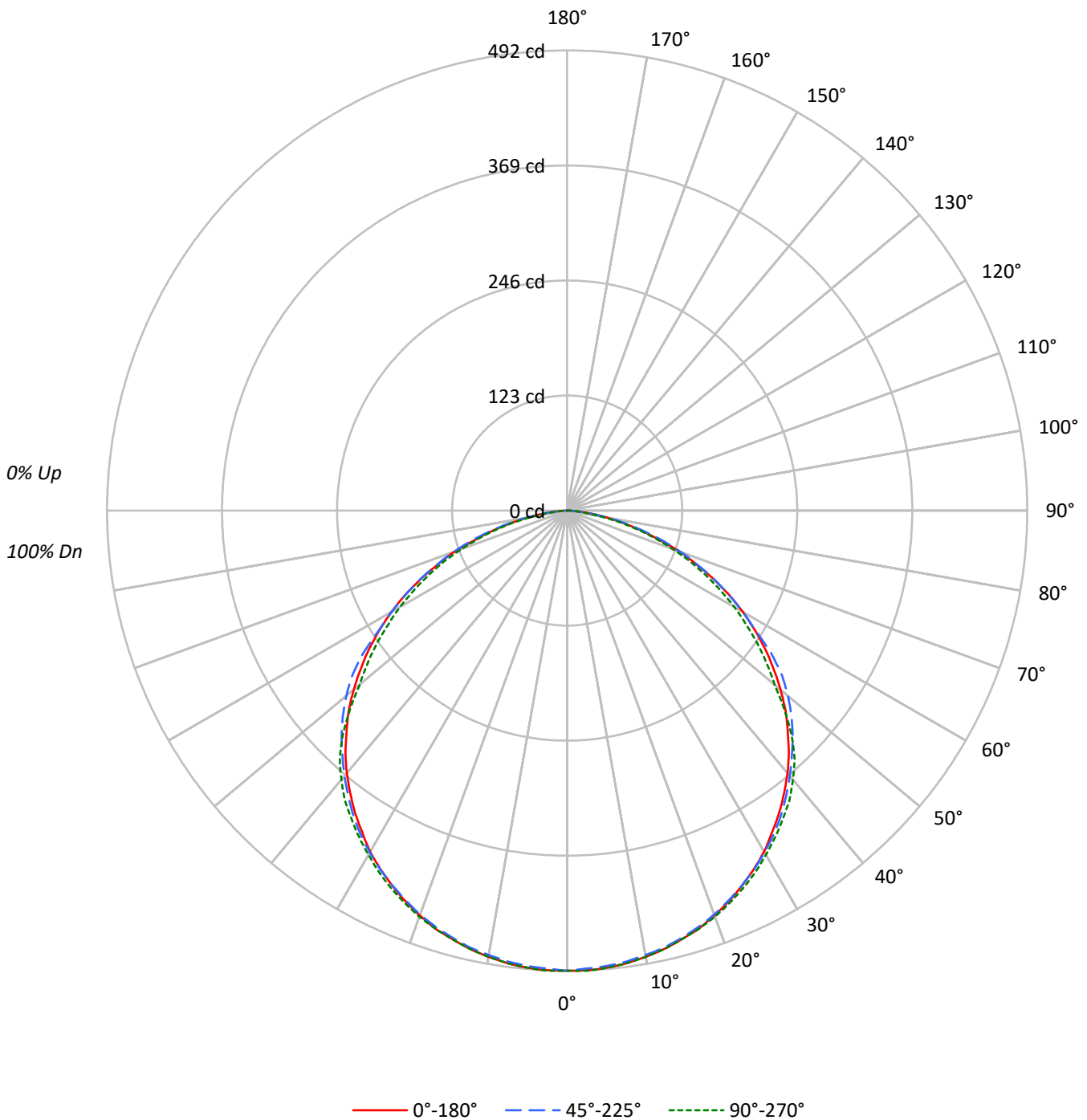
Input Watts (W): 18.414
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1324	1324	1324
5°	1325	1320	1325
10°	1324	1318	1324
15°	1322	1318	1322
20°	1319	1316	1323
25°	1314	1313	1322
30°	1309	1312	1321
35°	1298	1309	1321
40°	1288	1301	1319
45°	1269	1298	1292
50°	1247	1290	1213
55°	1214	1250	1167
60°	1168	1165	1112
65°	1095	1101	1040
70°	1005	1017	942
75°	844	884	805
80°	669	685	567
85°	438	380	321



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.6	3.3
10°-20°	133.9	9.6
20°-30°	204.5	14.6
30°-40°	249.5	17.8
40°-50°	260.9	18.6
50°-60°	231.0	16.5
60°-70°	170.1	12.1
70°-80°	88.1	6.3
80°-90°	17.5	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°	385.0	27.5
0°-40°	634.5	45.3
0°-60°	1126.3	80.3
0°-90°	1402.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1402.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	492	492	492	492	492	
5°	491	491	489	491	491	47
15°	474	474	473	475	474	134
25°	443	443	442	445	445	204
35°	395	396	398	402	402	247
45°	333	336	341	344	340	257
55°	259	264	266	253	249	231
65°	172	182	173	166	163	170
75°	81	87	85	80	77	87
85°	14	15	12	11	10	18
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	492.0	492.0	492.0	492.0	492.0
2.5°	492.0	492.0	490.1	492.0	492.5
5°	490.6	490.6	488.7	490.6	490.6
7.5°	488.2	487.7	486.3	488.2	488.2
10°	484.4	484.4	482.5	484.9	484.4
12.5°	480.1	479.6	478.7	480.6	480.1
15°	474.4	474.4	473.0	474.9	474.4
17.5°	468.7	468.2	466.8	468.7	468.7
20°	460.6	460.2	459.7	461.6	462.1
22.5°	452.1	451.6	451.1	454.0	454.0
25°	442.6	442.6	442.1	445.0	445.4
27.5°	432.2	432.2	432.6	436.4	435.9
30°	421.2	421.2	422.2	425.0	425.0
32.5°	407.9	408.9	410.8	414.1	414.1
35°	395.1	396.1	398.4	402.2	402.2
37.5°	380.9	382.3	384.7	389.4	390.4
40°	366.6	367.6	370.4	375.6	375.6
42.5°	350.9	351.9	355.7	360.9	360.0
45°	333.4	336.2	341.0	343.8	339.5
47.5°	316.8	318.7	325.3	322.0	314.9
50°	297.8	301.6	308.2	296.3	289.7
52.5°	278.3	282.6	289.7	273.1	269.3
55°	258.8	264.0	266.4	252.6	248.8
57.5°	237.9	243.6	238.9	230.8	227.0
60°	217.0	223.7	216.5	209.0	206.6
62.5°	195.2	202.8	194.7	188.1	184.7
65°	171.9	182.4	172.9	166.2	163.4
67.5°	149.1	160.0	150.1	144.4	142.5
70°	127.7	133.9	129.2	123.5	119.7
72.5°	102.1	108.3	107.3	101.2	98.8
75°	81.2	86.9	85.0	79.8	77.4
77.5°	60.3	66.5	64.6	58.4	57.5
80°	43.2	47.5	44.2	38.5	36.6
82.5°	27.1	30.4	26.1	21.8	20.9
85°	14.2	15.2	12.3	10.9	10.4
87.5°	4.7	5.2	5.2	4.7	4.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)