

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: P259156

Luminaire Tested: **14CZ-LD5-20-SQP-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259156
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-LD5-20-SQP-UNV-L92765-W2A1-U-3500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1164.0 lumens
Efficiency: N/A
Efficacy: 75.9 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

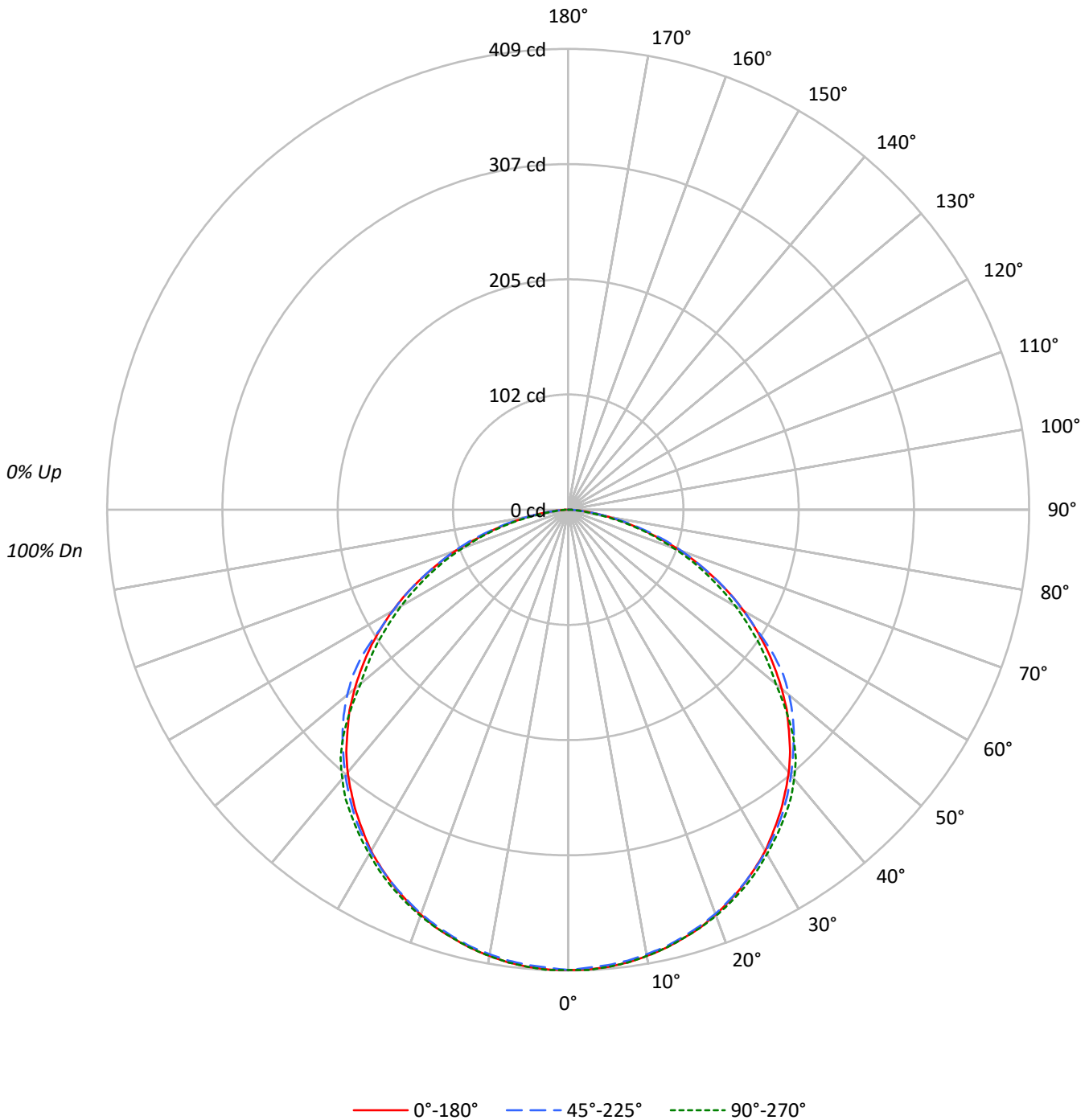
Input Watts (W): 15.345
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1099	1099	1099
5°	1100	1096	1100
10°	1099	1095	1099
15°	1097	1094	1097
20°	1095	1093	1099
25°	1091	1090	1098
30°	1087	1089	1097
35°	1078	1087	1097
40°	1069	1080	1096
45°	1053	1077	1073
50°	1035	1071	1007
55°	1008	1038	969
60°	970	968	923
65°	909	914	863
70°	835	843	782
75°	701	734	669
80°	556	569	471
85°	364	318	269



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.7	3.3
10°-20°	111.2	9.6
20°-30°	169.8	14.6
30°-40°	207.1	17.8
40°-50°	216.6	18.6
50°-60°	191.8	16.5
60°-70°	141.2	12.1
70°-80°	73.1	6.3
80°-90°	14.6	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°	319.6	27.5
0°-40°	526.8	45.3
0°-60°	935.1	80.3
0°-90°	1164.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1164.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	408	408	408	408	408	
5°	407	407	406	407	407	39
15°	394	394	393	394	394	111
25°	368	368	367	369	370	169
35°	328	329	331	334	334	205
45°	277	279	283	286	282	214
55°	215	219	221	210	207	192
65°	143	151	144	138	136	141
75°	67	72	71	66	64	72
85°	12	13	10	9	9	15
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	408.5	408.5	408.5	408.5	408.5
2.5°	408.5	408.5	406.9	408.5	408.9
5°	407.3	407.3	405.7	407.3	407.3
7.5°	405.3	404.9	403.7	405.3	405.3
10°	402.2	402.2	400.6	402.6	402.2
12.5°	398.6	398.2	397.4	399.0	398.6
15°	393.9	393.9	392.7	394.3	393.9
17.5°	389.1	388.8	387.6	389.1	389.1
20°	382.4	382.1	381.7	383.2	383.6
22.5°	375.3	375.0	374.6	376.9	376.9
25°	367.5	367.5	367.1	369.4	369.8
27.5°	358.8	358.8	359.2	362.3	361.9
30°	349.7	349.7	350.5	352.9	352.9
32.5°	338.7	339.5	341.0	343.8	343.8
35°	328.0	328.8	330.8	334.0	334.0
37.5°	316.2	317.4	319.4	323.3	324.1
40°	304.4	305.2	307.5	311.9	311.9
42.5°	291.4	292.2	295.3	299.6	298.9
45°	276.8	279.1	283.1	285.5	281.9
47.5°	263.0	264.6	270.1	267.3	261.4
50°	247.2	250.4	255.9	246.0	240.5
52.5°	231.0	234.6	240.5	226.7	223.6
55°	214.9	219.2	221.2	209.8	206.6
57.5°	197.5	202.3	198.3	191.6	188.5
60°	180.2	185.7	179.8	173.5	171.5
62.5°	162.0	168.4	161.7	156.1	153.4
65°	142.7	151.4	143.5	138.0	135.6
67.5°	123.8	132.9	124.6	119.9	118.3
70°	106.1	111.2	107.2	102.5	99.4
72.5°	84.8	89.9	89.1	84.0	82.0
75°	67.4	72.2	70.6	66.2	64.3
77.5°	50.1	55.2	53.6	48.5	47.7
80°	35.9	39.4	36.7	31.9	30.4
82.5°	22.5	25.2	21.7	18.1	17.3
85°	11.8	12.6	10.3	9.1	8.7
87.5°	3.9	4.3	4.3	3.9	3.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)