

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: P259164

Luminaire Tested: **14CZ-LD5-25-SQP-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259164
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-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: 1293.0 lumens
Efficiency: N/A
Efficacy: 71.7 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

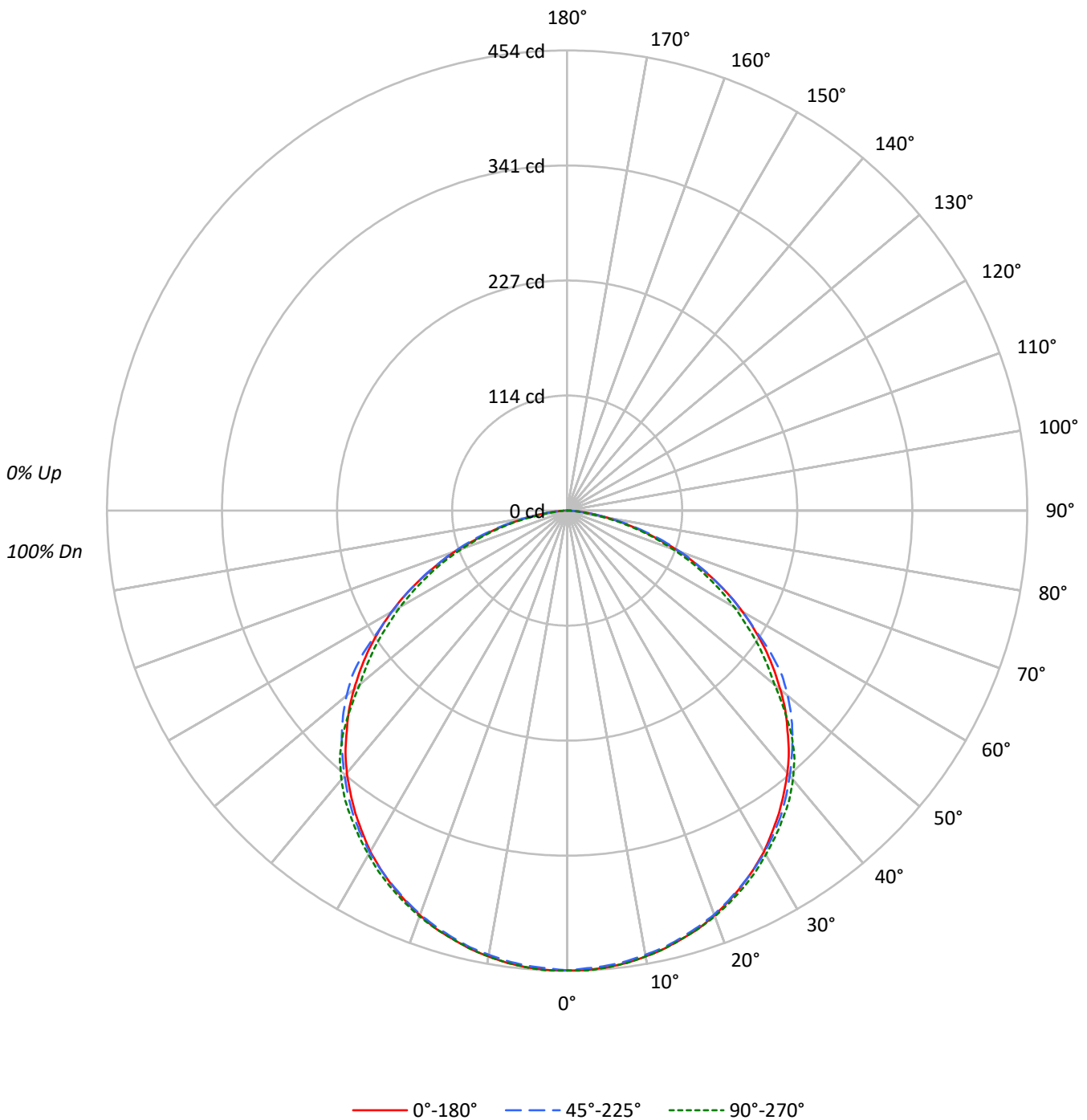
Input Watts (W): 18.042
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1221	1221	1221
5°	1222	1217	1222
10°	1221	1216	1221
15°	1219	1215	1219
20°	1216	1214	1220
25°	1212	1211	1220
30°	1207	1210	1218
35°	1197	1207	1219
40°	1188	1200	1217
45°	1170	1197	1192
50°	1150	1190	1119
55°	1120	1153	1077
60°	1077	1075	1025
65°	1009	1015	960
70°	927	937	869
75°	779	815	742
80°	618	631	522
85°	404	352	296



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.0	3.3
10°-20°	123.5	9.6
20°-30°	188.6	14.6
30°-40°	230.1	17.8
40°-50°	240.6	18.6
50°-60°	213.0	16.5
60°-70°	156.9	12.1
70°-80°	81.2	6.3
80°-90°	16.2	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°	355.1	27.5
0°-40°	585.1	45.3
0°-60°	1038.8	80.3
0°-90°	1293.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1293.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	454	454	454	454	454	
5°	452	452	451	452	452	43
15°	438	438	436	438	438	124
25°	408	408	408	410	411	188
35°	364	365	368	371	371	228
45°	308	310	314	317	313	237
55°	239	244	246	233	230	213
65°	158	168	159	153	151	157
75°	75	80	78	74	71	80
85°	13	14	11	10	10	17
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	453.7	453.7	453.7	453.7	453.7
2.5°	453.7	453.7	452.0	453.7	454.2
5°	452.4	452.4	450.7	452.4	452.4
7.5°	450.2	449.8	448.5	450.2	450.2
10°	446.7	446.7	445.0	447.2	446.7
12.5°	442.8	442.3	441.5	443.2	442.8
15°	437.5	437.5	436.2	438.0	437.5
17.5°	432.3	431.8	430.5	432.3	432.3
20°	424.8	424.4	424.0	425.7	426.1
22.5°	416.9	416.5	416.1	418.7	418.7
25°	408.2	408.2	407.7	410.4	410.8
27.5°	398.6	398.6	399.0	402.5	402.1
30°	388.5	388.5	389.4	392.0	392.0
32.5°	376.2	377.1	378.8	381.9	381.9
35°	364.4	365.3	367.5	371.0	371.0
37.5°	351.3	352.6	354.8	359.1	360.0
40°	338.1	339.0	341.6	346.4	346.4
42.5°	323.7	324.5	328.0	332.9	332.0
45°	307.5	310.1	314.5	317.1	313.1
47.5°	292.1	293.9	300.0	296.9	290.4
50°	274.6	278.1	284.2	273.3	267.2
52.5°	256.7	260.6	267.2	251.8	248.3
55°	238.7	243.5	245.7	233.0	229.5
57.5°	219.4	224.7	220.3	212.9	209.3
60°	200.2	206.3	199.7	192.7	190.5
62.5°	180.0	187.0	179.6	173.4	170.4
65°	158.5	168.2	159.4	153.3	150.7
67.5°	137.5	147.6	138.4	133.1	131.4
70°	117.8	123.5	119.1	113.9	110.4
72.5°	94.2	99.9	99.0	93.3	91.1
75°	74.9	80.1	78.4	73.6	71.4
77.5°	55.6	61.3	59.6	53.9	53.0
80°	39.9	43.8	40.7	35.5	33.7
82.5°	25.0	28.0	24.1	20.1	19.3
85°	13.1	14.0	11.4	10.1	9.6
87.5°	4.4	4.8	4.8	4.4	4.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)