

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: P259202

Luminaire Tested: **14CZ-LD5-44-SQP-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259202
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-LD5-44-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: 2485.0 lumens
Efficiency: N/A
Efficacy: 69.0 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

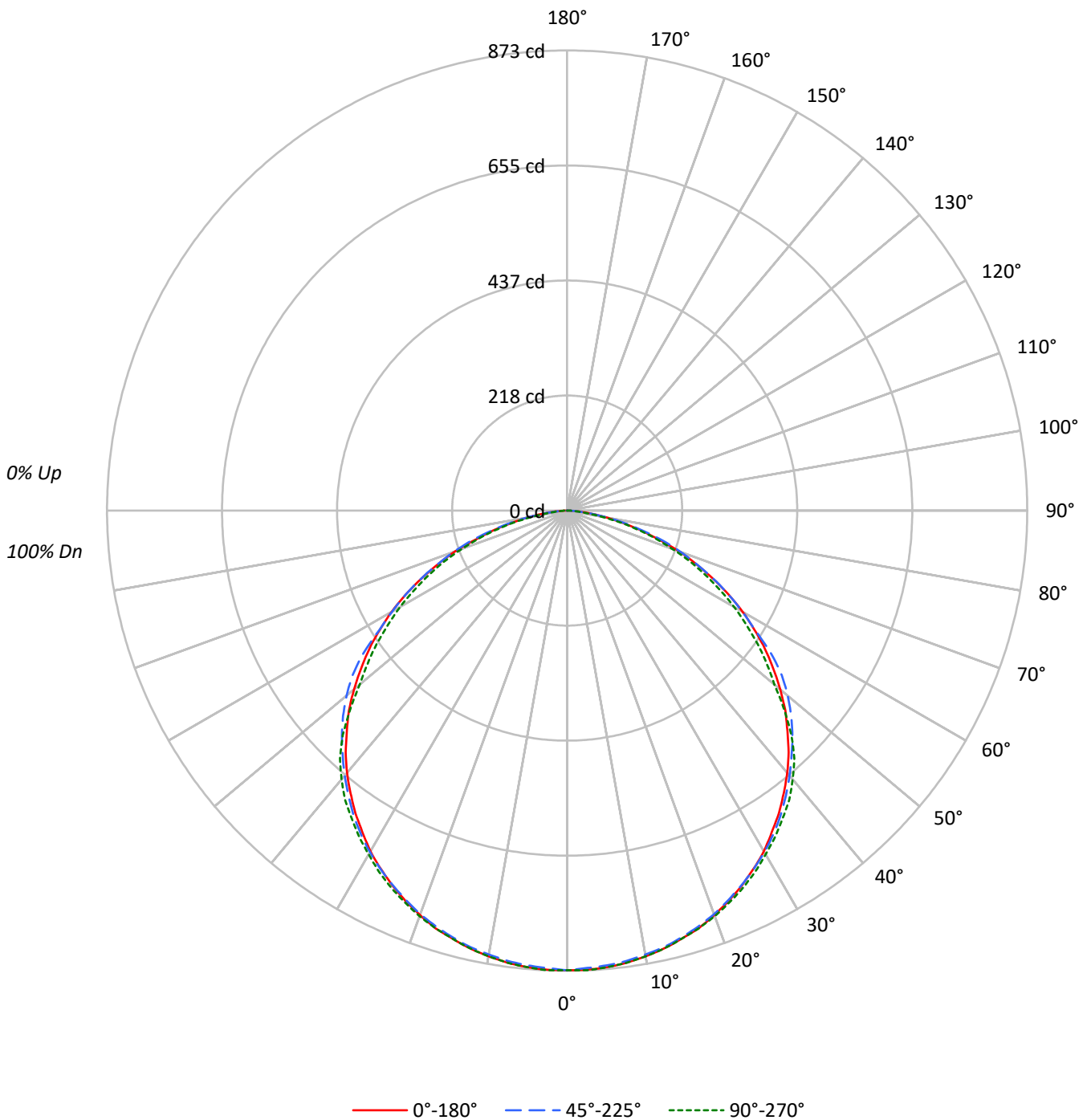
Input Watts (W): 35.991
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2347	2347	2347
5°	2349	2340	2349
10°	2346	2337	2346
15°	2343	2336	2343
20°	2338	2333	2345
25°	2329	2327	2344
30°	2320	2325	2341
35°	2301	2320	2342
40°	2283	2306	2339
45°	2249	2300	2290
50°	2210	2287	2150
55°	2152	2215	2069
60°	2070	2066	1971
65°	1940	1951	1844
70°	1781	1801	1669
75°	1496	1567	1426
80°	1187	1213	1004
85°	781	676	571



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.6	3.3
10°-20°	237.4	9.6
20°-30°	362.4	14.6
30°-40°	442.2	17.8
40°-50°	462.4	18.6
50°-60°	409.4	16.5
60°-70°	301.5	12.1
70°-80°	156.1	6.3
80°-90°	31.1	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°	682.4	27.5
0°-40°	1124.6	45.3
0°-60°	1996.4	80.3
0°-90°	2485.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2485.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	872	872	872	872	872	
5°	870	870	866	870	870	83
15°	841	841	838	842	841	238
25°	784	784	784	789	790	362
35°	700	702	706	713	713	438
45°	591	596	604	609	602	456
55°	459	468	472	448	441	409
65°	305	323	306	295	290	302
75°	144	154	151	141	137	154
85°	25	27	22	19	18	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	872.0	872.0	872.0	872.0	872.0
2.5°	872.0	872.0	868.7	872.0	872.9
5°	869.5	869.5	866.1	869.5	869.5
7.5°	865.3	864.5	861.9	865.3	865.3
10°	858.6	858.6	855.2	859.4	858.6
12.5°	851.0	850.1	848.5	851.8	851.0
15°	840.9	840.9	838.4	841.7	840.9
17.5°	830.8	829.9	827.4	830.8	830.8
20°	816.5	815.6	814.8	818.2	819.0
22.5°	801.3	800.5	799.6	804.7	804.7
25°	784.5	784.5	783.6	788.7	789.5
27.5°	766.0	766.0	766.8	773.5	772.7
30°	746.6	746.6	748.3	753.3	753.3
32.5°	723.0	724.7	728.1	734.0	734.0
35°	700.3	702.0	706.2	712.9	712.9
37.5°	675.1	677.6	681.8	690.2	691.9
40°	649.8	651.5	656.5	665.8	665.8
42.5°	622.0	623.7	630.5	639.7	638.0
45°	590.9	595.9	604.4	609.4	601.8
47.5°	561.4	564.8	576.6	570.7	558.1
50°	527.8	534.5	546.3	525.2	513.5
52.5°	493.3	500.8	513.5	484.0	477.3
55°	458.7	468.0	472.2	447.8	441.1
57.5°	421.7	431.8	423.4	409.1	402.3
60°	384.7	396.5	383.8	370.4	366.2
62.5°	346.0	359.4	345.1	333.3	327.4
65°	304.7	323.2	306.4	294.6	289.6
67.5°	264.3	283.7	266.0	255.9	252.5
70°	226.4	237.4	228.9	218.8	212.1
72.5°	181.0	191.9	190.2	179.3	175.1
75°	143.9	154.0	150.7	141.4	137.2
77.5°	106.9	117.8	114.5	103.5	101.8
80°	76.6	84.2	78.3	68.2	64.8
82.5°	48.0	53.9	46.3	38.7	37.0
85°	25.3	26.9	21.9	19.4	18.5
87.5°	8.4	9.3	9.3	8.4	8.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)