

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: P259207

Luminaire Tested: **14CZ-LD5-44-SQP-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259207
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-6500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2670.0 lumens
Efficiency: N/A
Efficacy: 71.6 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

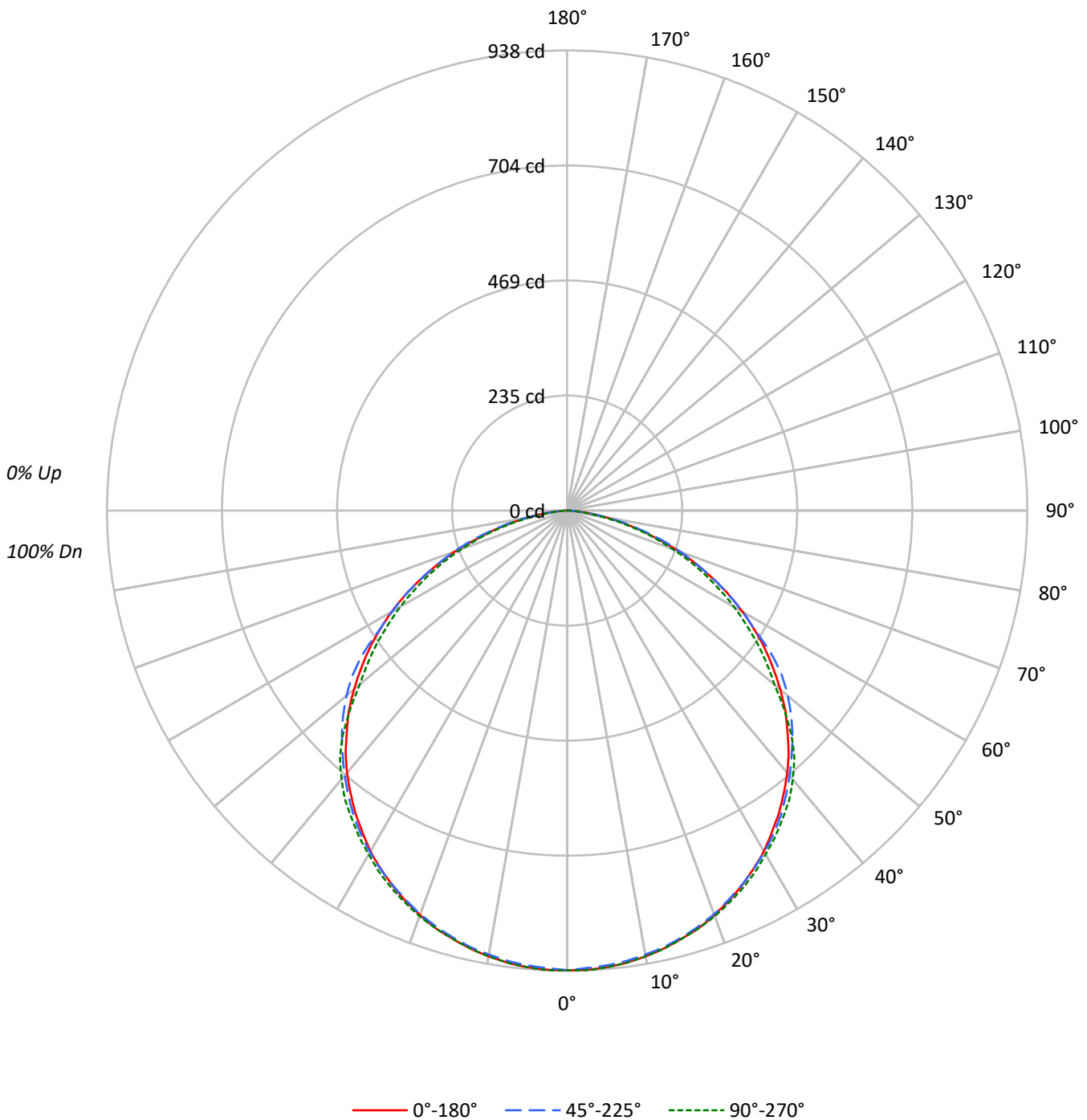
Input Watts (W): 37.293
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2521	2521	2521
5°	2524	2514	2524
10°	2521	2511	2521
15°	2517	2510	2517
20°	2512	2507	2520
25°	2503	2500	2519
30°	2493	2498	2515
35°	2472	2493	2516
40°	2453	2478	2513
45°	2416	2471	2461
50°	2374	2457	2310
55°	2312	2381	2223
60°	2224	2220	2117
65°	2085	2096	1981
70°	1914	1936	1793
75°	1608	1683	1533
80°	1275	1303	1079
85°	837	726	614



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.7	3.3
10°-20°	255.0	9.6
20°-30°	389.4	14.6
30°-40°	475.1	17.8
40°-50°	496.8	18.6
50°-60°	439.9	16.5
60°-70°	323.9	12.1
70°-80°	167.7	6.3
80°-90°	33.4	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°	733.2	27.5
0°-40°	1208.3	45.3
0°-60°	2145.0	80.3
0°-90°	2670.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2670.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	937	937	937	937	937	
5°	934	934	931	934	934	89
15°	904	904	901	904	904	255
25°	843	843	842	847	848	389
35°	752	754	759	766	766	471
45°	635	640	649	655	647	490
55°	493	503	507	481	474	440
65°	327	347	329	316	311	324
75°	155	166	162	152	147	165
85°	27	29	24	21	20	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	936.9	936.9	936.9	936.9	936.9
2.5°	936.9	936.9	933.3	936.9	937.9
5°	934.2	934.2	930.6	934.2	934.2
7.5°	929.7	928.8	926.1	929.7	929.7
10°	922.5	922.5	918.9	923.4	922.5
12.5°	914.3	913.4	911.6	915.2	914.3
15°	903.5	903.5	900.8	904.4	903.5
17.5°	892.6	891.7	889.0	892.6	892.6
20°	877.3	876.4	875.5	879.1	880.0
22.5°	861.0	860.1	859.2	864.6	864.6
25°	842.9	842.9	842.0	847.4	848.3
27.5°	823.0	823.0	823.9	831.1	830.2
30°	802.2	802.2	804.0	809.4	809.4
32.5°	776.9	778.7	782.3	788.6	788.6
35°	752.5	754.3	758.8	766.0	766.0
37.5°	725.3	728.0	732.6	741.6	743.4
40°	698.2	700.0	705.4	715.4	715.4
42.5°	668.3	670.2	677.4	687.3	685.5
45°	634.9	640.3	649.4	654.8	646.6
47.5°	603.2	606.8	619.5	613.2	599.6
50°	567.1	574.3	587.0	564.3	551.7
52.5°	530.0	538.1	551.7	520.0	512.8
55°	492.9	502.8	507.4	481.1	473.9
57.5°	453.1	464.0	454.9	439.5	432.3
60°	413.3	426.0	412.4	397.9	393.4
62.5°	371.7	386.2	370.8	358.1	351.8
65°	327.4	347.3	329.2	316.5	311.1
67.5°	284.0	304.8	285.8	274.9	271.3
70°	243.3	255.0	246.0	235.1	227.9
72.5°	194.4	206.2	204.4	192.6	188.1
75°	154.7	165.5	161.9	151.9	147.4
77.5°	114.9	126.6	123.0	111.2	109.4
80°	82.3	90.4	84.1	73.3	69.6
82.5°	51.6	57.9	49.7	41.6	39.8
85°	27.1	28.9	23.5	20.8	19.9
87.5°	9.0	9.9	9.9	9.0	9.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)