

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: P259145

Luminaire Tested: **14CZ-LD5-44-SQP-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259145
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-L82765-W2A1-U-2700K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2582.0 lumens
Efficiency: N/A
Efficacy: 72.5 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

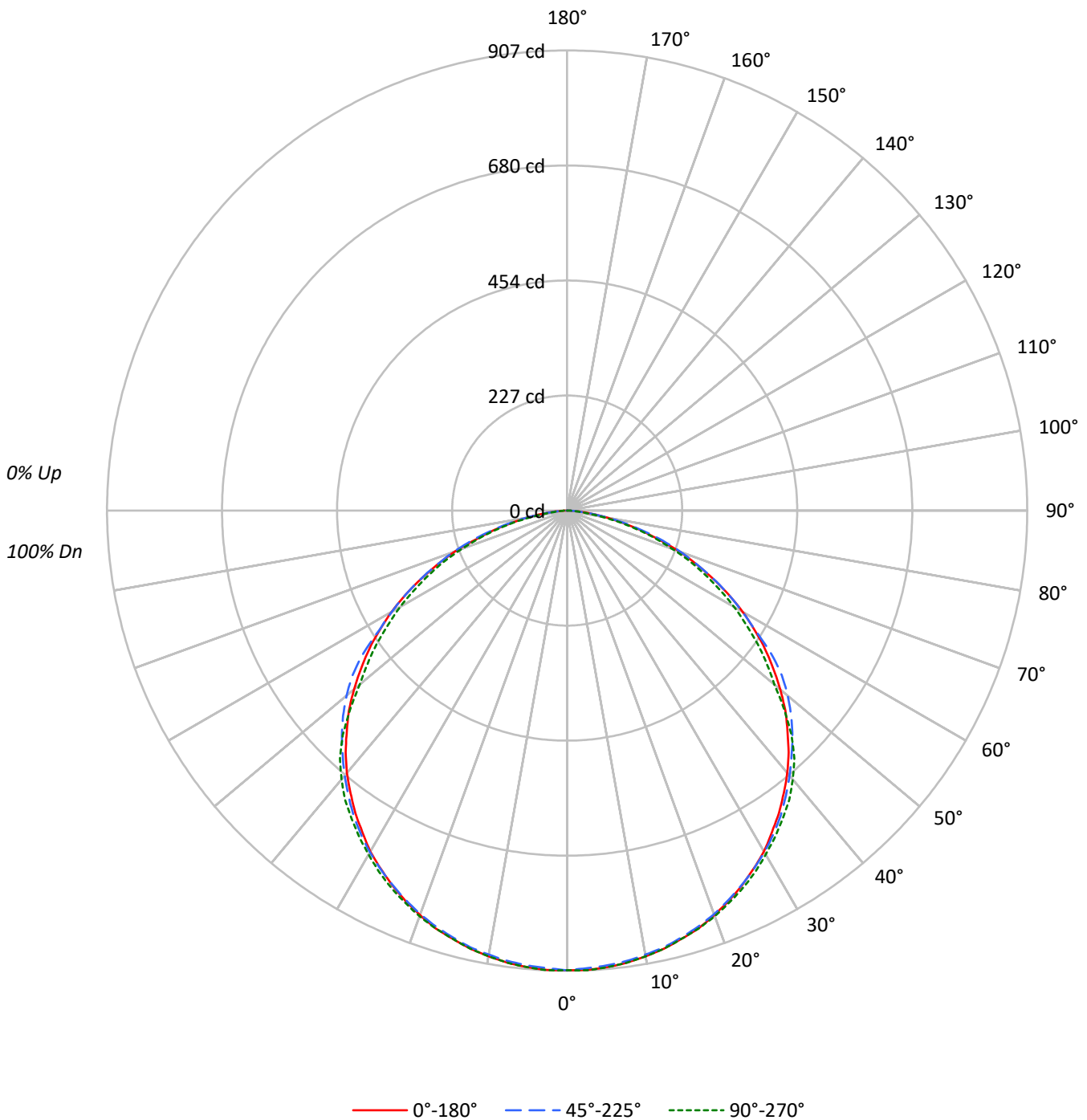
Input Watts (W): 35.619
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			20			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°	2438	2438	2438
5°	2440	2431	2440
10°	2438	2428	2438
15°	2434	2427	2434
20°	2429	2424	2437
25°	2420	2417	2436
30°	2411	2416	2432
35°	2391	2411	2434
40°	2372	2396	2430
45°	2337	2390	2380
50°	2296	2376	2233
55°	2236	2302	2150
60°	2151	2146	2047
65°	2016	2027	1916
70°	1851	1872	1734
75°	1555	1628	1483
80°	1234	1260	1043
85°	809	701	593



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.8	3.3
10°-20°	246.6	9.6
20°-30°	376.6	14.6
30°-40°	459.5	17.8
40°-50°	480.5	18.6
50°-60°	425.4	16.5
60°-70°	313.2	12.1
70°-80°	162.2	6.3
80°-90°	32.3	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°	709.0	27.5
0°-40°	1168.5	45.3
0°-60°	2074.3	80.3
0°-90°	2582.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2582.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	906	906	906	906	906	
5°	903	903	900	903	903	86
15°	874	874	871	875	874	247
25°	815	815	814	820	820	376
35°	728	729	734	741	741	455
45°	614	619	628	633	625	474
55°	477	486	491	465	458	425
65°	317	336	318	306	301	314
75°	150	160	157	147	143	160
85°	26	28	23	20	19	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	906.1	906.1	906.1	906.1	906.1
2.5°	906.1	906.1	902.6	906.1	906.9
5°	903.4	903.4	899.9	903.4	903.4
7.5°	899.1	898.2	895.6	899.1	899.1
10°	892.1	892.1	888.6	893.0	892.1
12.5°	884.2	883.3	881.6	885.1	884.2
15°	873.7	873.7	871.1	874.6	873.7
17.5°	863.2	862.3	859.7	863.2	863.2
20°	848.3	847.5	846.6	850.1	851.0
22.5°	832.6	831.7	830.9	836.1	836.1
25°	815.1	815.1	814.2	819.5	820.4
27.5°	795.9	795.9	796.7	803.7	802.9
30°	775.8	775.8	777.5	782.8	782.8
32.5°	751.3	753.0	756.5	762.6	762.6
35°	727.7	729.4	733.8	740.8	740.8
37.5°	701.4	704.0	708.4	717.2	718.9
40°	675.2	676.9	682.2	691.8	691.8
42.5°	646.3	648.1	655.1	664.7	662.9
45°	614.0	619.2	628.0	633.2	625.3
47.5°	583.3	586.8	599.1	593.0	579.8
50°	548.4	555.4	567.6	545.7	533.5
52.5°	512.5	520.4	533.5	502.9	495.9
55°	476.6	486.3	490.6	465.3	458.3
57.5°	438.2	448.7	439.9	425.0	418.1
60°	399.7	411.9	398.8	384.8	380.4
62.5°	359.5	373.4	358.6	346.3	340.2
65°	316.6	335.8	318.3	306.1	300.9
67.5°	274.6	294.7	276.4	265.9	262.4
70°	235.3	246.6	237.9	227.4	220.4
72.5°	188.0	199.4	197.7	186.3	181.9
75°	149.6	160.0	156.6	146.9	142.6
77.5°	111.1	122.4	118.9	107.6	105.8
80°	79.6	87.5	81.3	70.8	67.3
82.5°	49.9	56.0	48.1	40.2	38.5
85°	26.2	28.0	22.7	20.1	19.2
87.5°	8.7	9.6	9.6	8.7	8.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)