

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: P275526

Luminaire Tested: **14CZ2-29-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275526
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-49)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-29-UNV-L92765-W2A1-U-5500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2721.0 lumens
Efficiency: N/A
Efficacy: 119.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

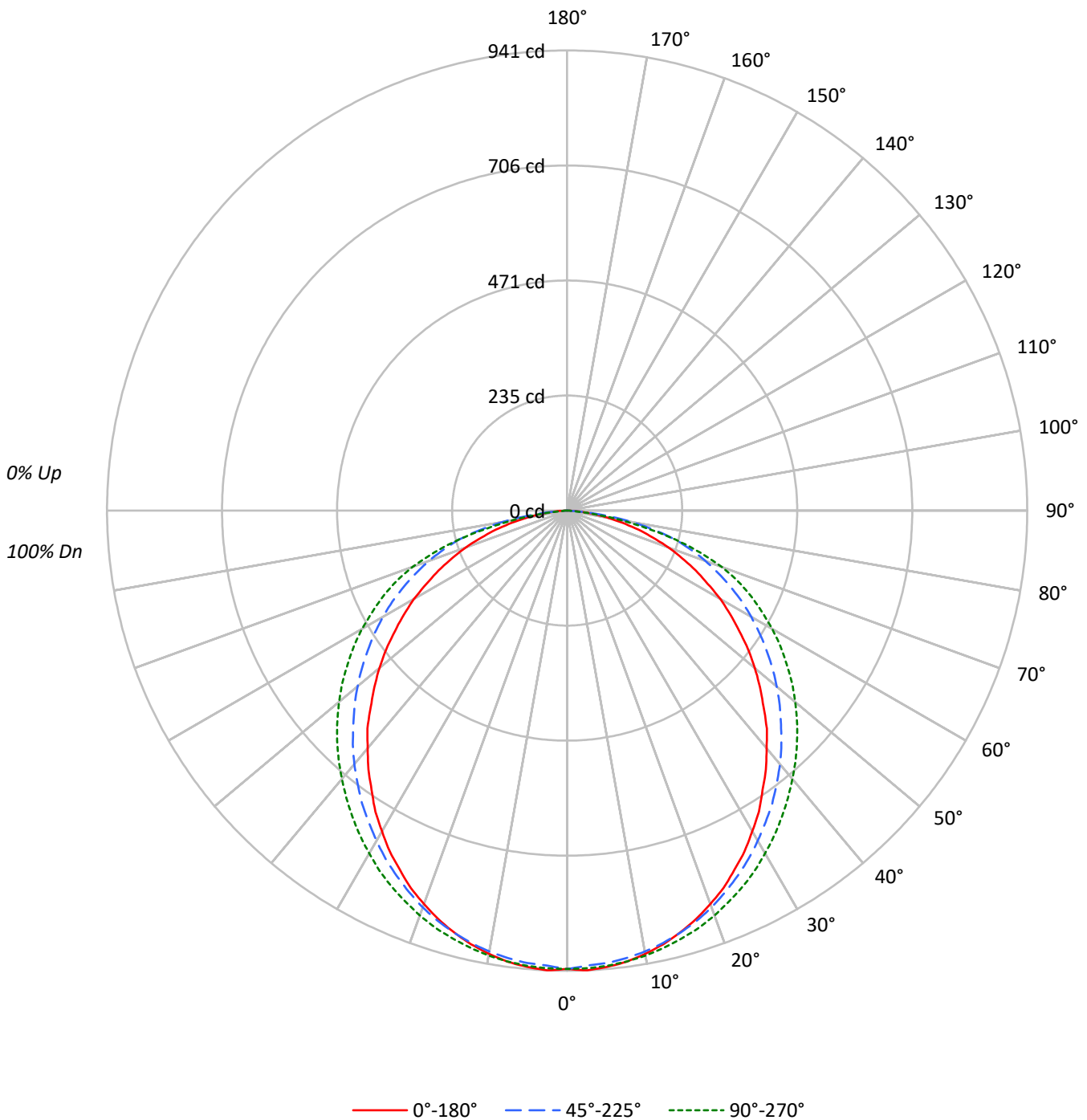
Input Watts (W): 22.785
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	37	30	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2523	2523	2523
5°	2531	2509	2524
10°	2515	2502	2525
15°	2488	2490	2523
20°	2452	2473	2523
25°	2405	2448	2520
30°	2353	2422	2515
35°	2290	2402	2513
40°	2229	2379	2517
45°	2161	2353	2531
50°	2098	2342	2547
55°	2018	2334	2571
60°	1946	2338	2606
65°	1847	2345	2646
70°	1733	2363	2644
75°	1571	2384	2390
80°	1288	2060	1702
85°	954	973	392



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.7	3.3
10°-20°	253.4	9.3
20°-30°	381.7	14.0
30°-40°	458.0	16.8
40°-50°	477.4	17.5
50°-60°	442.0	16.2
60°-70°	357.1	13.1
70°-80°	217.7	8.0
80°-90°	44.9	1.7
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°	723.8	26.6
0°-40°	1181.8	43.4
0°-60°	2101.2	77.2
0°-90°	2721.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2721.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	937	937	937	937	937	
5°	937	934	929	936	934	89
15°	893	894	894	906	906	252
25°	810	815	824	845	849	373
35°	697	708	731	758	765	437
45°	568	585	618	653	665	439
55°	430	453	498	536	548	385
65°	290	318	368	405	416	287
75°	151	184	229	233	230	159
85°	31	46	32	18	13	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	937.4	937.4	937.4	937.4	937.4
2.5°	941.0	938.0	931.3	938.0	936.8
5°	936.8	934.4	928.9	935.6	934.4
7.5°	930.7	928.3	923.4	931.3	930.1
10°	920.4	919.2	915.6	924.7	924.0
12.5°	908.3	907.7	905.8	916.2	915.6
15°	893.1	893.7	893.7	905.8	905.8
17.5°	876.1	877.3	879.8	893.1	894.9
20°	856.1	858.5	863.4	878.5	881.0
22.5°	835.5	837.3	844.6	862.8	865.2
25°	810.0	814.8	824.5	845.2	848.8
27.5°	785.7	790.0	803.3	824.5	830.6
30°	757.2	763.9	779.6	802.7	809.4
32.5°	729.9	737.2	755.4	782.1	788.1
35°	697.1	708.1	731.1	757.8	765.1
37.5°	667.4	677.7	703.8	732.9	741.4
40°	634.6	647.4	677.1	708.1	716.5
42.5°	604.3	616.4	648.6	680.1	691.7
45°	567.9	584.9	618.3	652.8	665.0
47.5°	534.5	551.5	589.7	626.7	637.7
50°	501.2	519.4	559.4	597.6	608.5
52.5°	466.6	486.0	529.1	567.3	580.0
55°	430.2	452.6	497.5	536.3	547.9
57.5°	395.6	418.6	466.6	506.0	517.5
60°	361.6	385.3	434.4	472.0	484.2
62.5°	324.0	351.9	402.9	439.9	449.0
65°	290.0	318.5	368.3	405.3	415.6
67.5°	254.2	285.2	334.9	368.9	378.6
70°	220.2	252.4	300.3	331.9	336.1
72.5°	183.8	216.6	265.1	285.2	285.2
75°	151.1	184.4	229.3	233.0	229.9
77.5°	115.3	152.3	181.4	174.1	166.8
80°	83.1	119.5	132.9	119.5	109.8
82.5°	55.8	86.8	80.1	63.7	56.4
85°	30.9	46.1	31.5	17.6	12.7
87.5°	11.5	10.3	3.0	3.0	3.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)