

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: P277067

Luminaire Tested: **24CZ2-55HE-RDP-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P277067  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1808-918-19)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ2-55HE-RDP-UNV-L92765-W2A1-U-5000K  
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS  
Light Source: (336) 90 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3263.9 lumens  
Efficiency: N/A  
Efficacy: 79.6 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

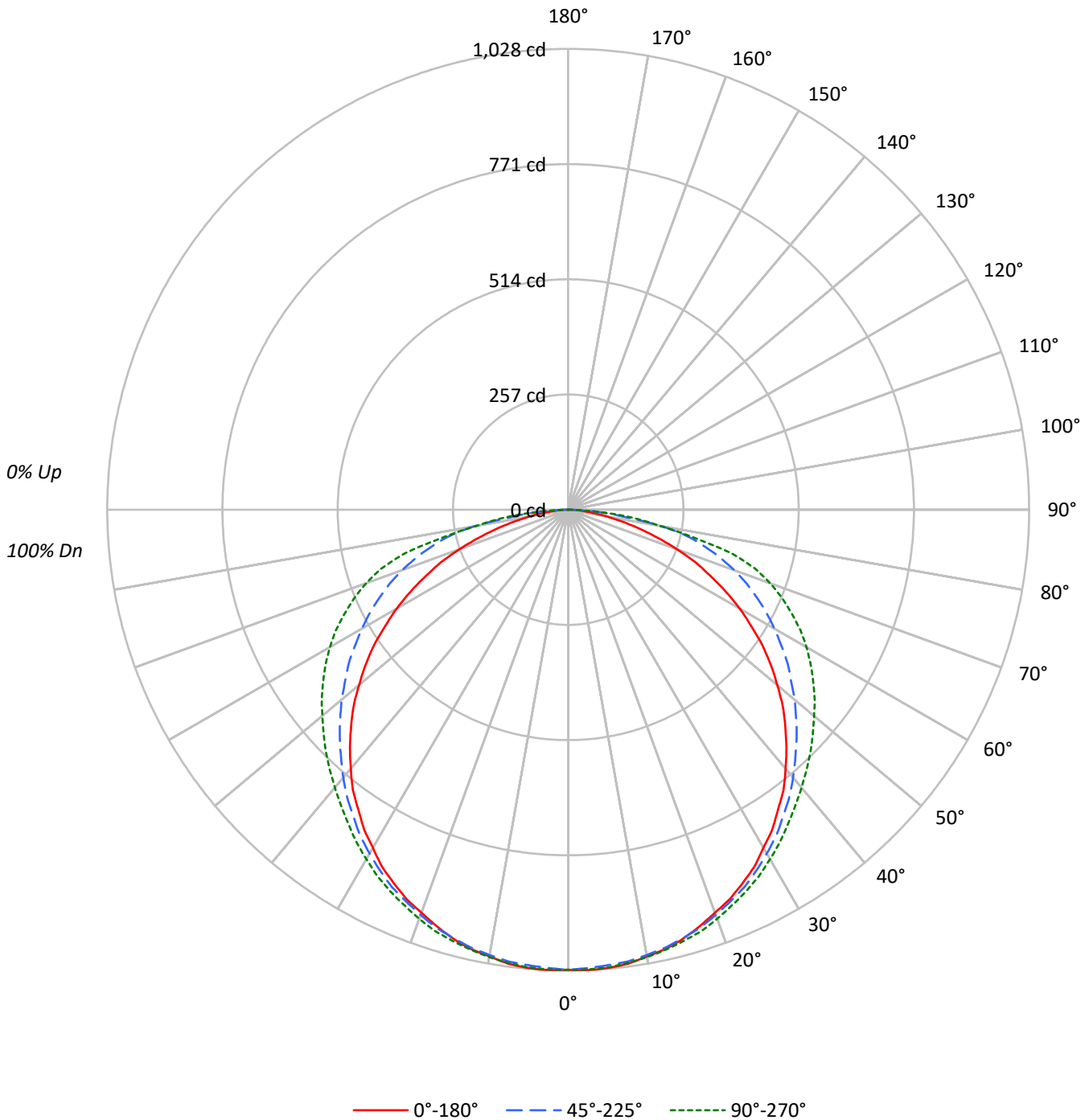
Input Watts (W): 41.013  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	108	103	98	94	105	100	96	92	96	93	89	92	89	87	88	86	84	82
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67
3	88	77	68	62	86	76	67	61	72	66	60	70	64	59	67	62	58	56
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49	47
5	74	60	51	44	72	59	51	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	45	38	51	44	38	50	43	37	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1381	1381	1381
5°	1386	1378	1384
10°	1382	1378	1385
15°	1380	1378	1387
20°	1370	1377	1391
25°	1365	1380	1394
30°	1353	1376	1398
35°	1340	1372	1404
40°	1325	1371	1422
45°	1303	1371	1454
50°	1274	1379	1498
55°	1242	1401	1565
60°	1189	1429	1651
65°	1113	1479	1752
70°	1013	1548	1885
75°	858	1633	1969
80°	677	1643	1593
85°	500	1249	1400



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	97.4	3.0
10°-20°	280.2	8.6
20°-30°	428.5	13.1
30°-40°	523.9	16.0
40°-50°	558.3	17.1
50°-60°	533.8	16.4
60°-70°	452.2	13.9
70°-80°	303.9	9.3
80°-90°	85.7	2.6
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°	806.1	24.7
0°-40°	1329.9	40.7
0°-60°	2422.1	74.2
0°-90°	3263.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3263.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1026	1026	1026	1026	1026	
5°	1026	1025	1020	1025	1025	98
15°	991	991	989	997	996	279
25°	920	923	929	937	939	424
35°	816	822	835	852	855	511
45°	685	696	720	751	764	528
55°	529	549	597	644	667	472
65°	350	385	465	526	550	347
75°	165	225	314	368	379	177
85°	32	66	81	87	91	40
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1026.4	1026.4	1026.4	1026.4	1026.4
2.5°	1028.0	1028.0	1023.2	1026.4	1026.4
5°	1026.4	1024.8	1019.9	1024.8	1024.8
7.5°	1021.6	1019.9	1016.7	1021.6	1019.9
10°	1011.8	1011.8	1008.6	1013.5	1013.5
12.5°	1003.7	1002.1	1000.5	1007.0	1005.4
15°	990.8	990.8	989.2	997.3	995.7
17.5°	974.6	976.2	977.8	984.3	985.9
20°	956.8	960.0	961.7	971.4	971.4
22.5°	940.6	942.2	945.5	955.2	955.2
25°	919.6	922.8	929.3	937.4	939.0
27.5°	898.5	900.1	908.2	919.6	921.2
30°	871.0	875.9	885.6	898.5	900.1
32.5°	846.7	851.6	862.9	875.9	879.1
35°	816.0	822.4	835.4	851.6	854.8
37.5°	788.4	793.3	809.5	827.3	832.1
40°	754.4	764.1	780.3	801.4	809.5
42.5°	720.4	730.1	749.6	777.1	786.8
45°	684.8	696.1	720.4	751.2	764.1
47.5°	649.2	662.2	689.7	725.3	739.9
50°	608.7	624.9	658.9	699.4	715.6
52.5°	569.9	589.3	626.5	671.9	692.9
55°	529.4	548.8	597.4	644.3	667.0
57.5°	484.1	510.0	563.4	616.8	641.1
60°	442.0	466.3	531.0	589.3	613.6
62.5°	396.6	429.0	498.6	560.2	584.4
65°	349.7	385.3	464.6	526.2	550.4
67.5°	307.6	346.5	430.6	492.2	516.4
70°	257.4	306.0	393.4	454.9	479.2
72.5°	210.5	263.9	354.6	414.5	437.1
75°	165.1	225.0	314.1	367.5	378.8
77.5°	123.0	186.2	272.0	294.6	286.6
80°	87.4	148.9	212.1	200.7	205.6
82.5°	56.7	113.3	131.1	148.9	153.8
85°	32.4	66.4	80.9	87.4	90.7
87.5°	14.6	24.3	32.4	32.4	30.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)