

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: P277068

Luminaire Tested: **24CZ2-55HE-RDP-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277068
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-5500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3314.8 lumens
Efficiency: N/A
Efficacy: 80.5 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

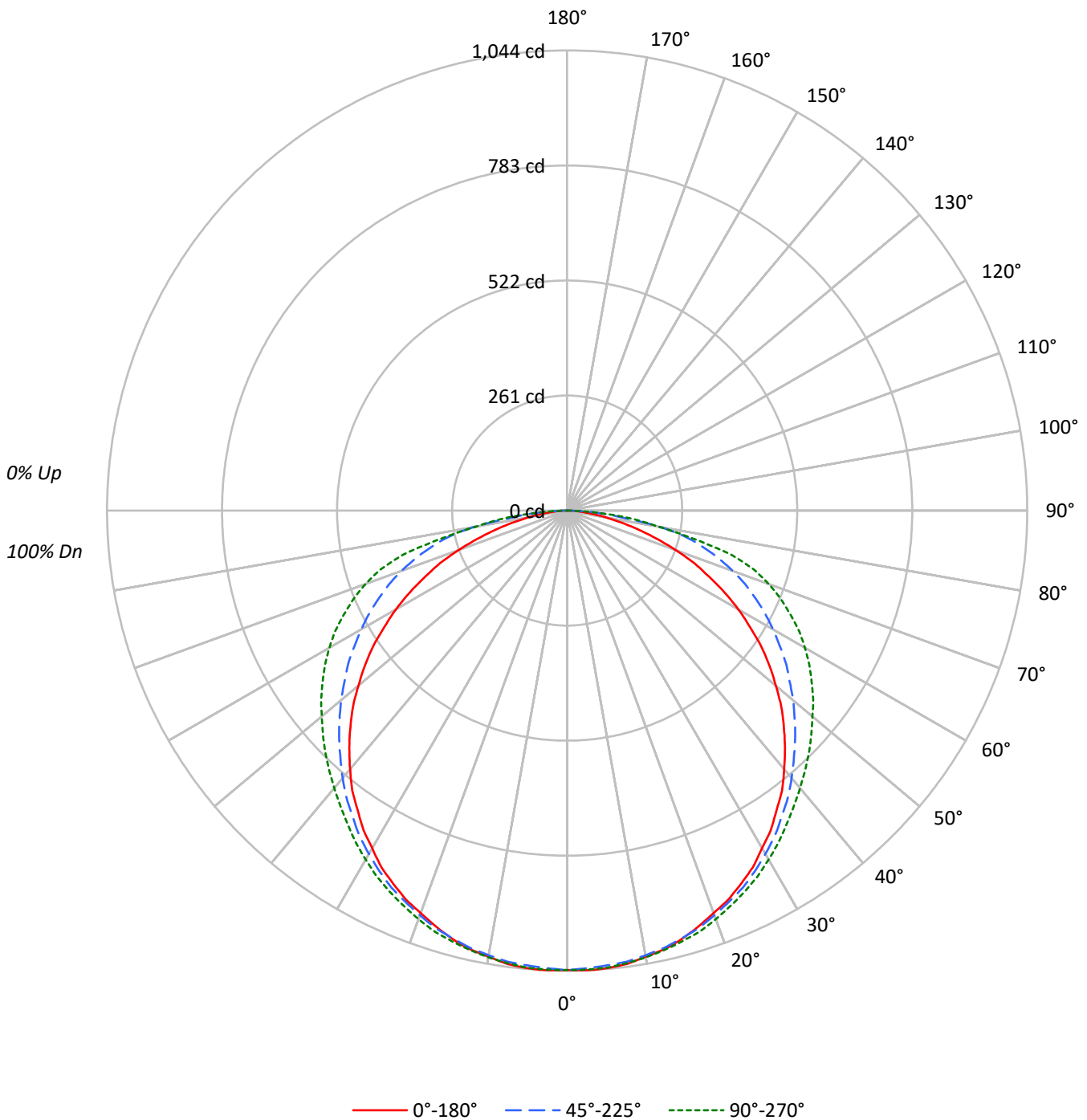
Input Watts (W): 41.199
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1403	1403	1403
5°	1408	1399	1406
10°	1404	1399	1406
15°	1402	1399	1409
20°	1391	1398	1413
25°	1386	1401	1416
30°	1374	1397	1420
35°	1361	1394	1426
40°	1346	1392	1444
45°	1323	1392	1477
50°	1294	1401	1521
55°	1261	1423	1589
60°	1208	1451	1677
65°	1131	1502	1780
70°	1028	1572	1915
75°	872	1658	2000
80°	688	1669	1618
85°	508	1269	1422



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.9	3.0
10°-20°	284.6	8.6
20°-30°	435.2	13.1
30°-40°	532.0	16.0
40°-50°	567.0	17.1
50°-60°	542.1	16.4
60°-70°	459.3	13.9
70°-80°	308.7	9.3
80°-90°	87.1	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°	818.7	24.7
0°-40°	1350.7	40.7
0°-60°	2459.8	74.2
0°-90°	3314.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3314.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1042	1042	1042	1042	1042	
5°	1042	1041	1036	1041	1041	99
15°	1006	1006	1005	1013	1011	284
25°	934	937	944	952	954	430
35°	829	835	848	865	868	519
45°	696	707	732	763	776	536
55°	538	557	607	654	677	479
65°	355	391	472	534	559	353
75°	168	228	319	373	385	180
85°	33	67	82	89	92	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1042.4	1042.4	1042.4	1042.4	1042.4
2.5°	1044.1	1044.1	1039.1	1042.4	1042.4
5°	1042.4	1040.8	1035.8	1040.8	1040.8
7.5°	1037.5	1035.8	1032.6	1037.5	1035.8
10°	1027.6	1027.6	1024.3	1029.3	1029.3
12.5°	1019.4	1017.8	1016.1	1022.7	1021.0
15°	1006.2	1006.2	1004.6	1012.8	1011.2
17.5°	989.8	991.5	993.1	999.7	1001.3
20°	971.7	975.0	976.7	986.5	986.5
22.5°	955.3	956.9	960.2	970.1	970.1
25°	933.9	937.2	943.8	952.0	953.6
27.5°	912.5	914.2	922.4	933.9	935.5
30°	884.6	889.5	899.4	912.5	914.2
32.5°	859.9	864.8	876.4	889.5	892.8
35°	828.7	835.3	848.4	864.8	868.1
37.5°	800.7	805.7	822.1	840.2	845.1
40°	766.2	776.1	792.5	813.9	822.1
42.5°	731.7	741.5	761.3	789.2	799.1
45°	695.5	707.0	731.7	762.9	776.1
47.5°	659.3	672.5	700.4	736.6	751.4
50°	618.2	634.7	669.2	710.3	726.7
52.5°	578.8	598.5	636.3	682.3	703.7
55°	537.7	557.4	606.7	654.4	677.4
57.5°	491.6	517.9	572.2	626.4	651.1
60°	448.9	473.5	539.3	598.5	623.2
62.5°	402.8	435.7	506.4	568.9	593.6
65°	355.1	391.3	471.9	534.4	559.0
67.5°	312.4	351.9	437.4	499.8	524.5
70°	261.4	310.8	399.5	462.0	486.7
72.5°	213.7	268.0	360.1	420.9	443.9
75°	167.7	228.5	319.0	373.2	384.7
77.5°	125.0	189.1	276.2	299.2	291.0
80°	88.8	151.3	215.4	203.9	208.8
82.5°	57.5	115.1	133.2	151.3	156.2
85°	32.9	67.4	82.2	88.8	92.1
87.5°	14.8	24.7	32.9	32.9	31.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)