

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: P276931

Luminaire Tested: **24CZ2-55HE-RDP-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276931
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-L82765-W2A1-U-4500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3587.1 lumens
Efficiency: N/A
Efficacy: 87.9 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

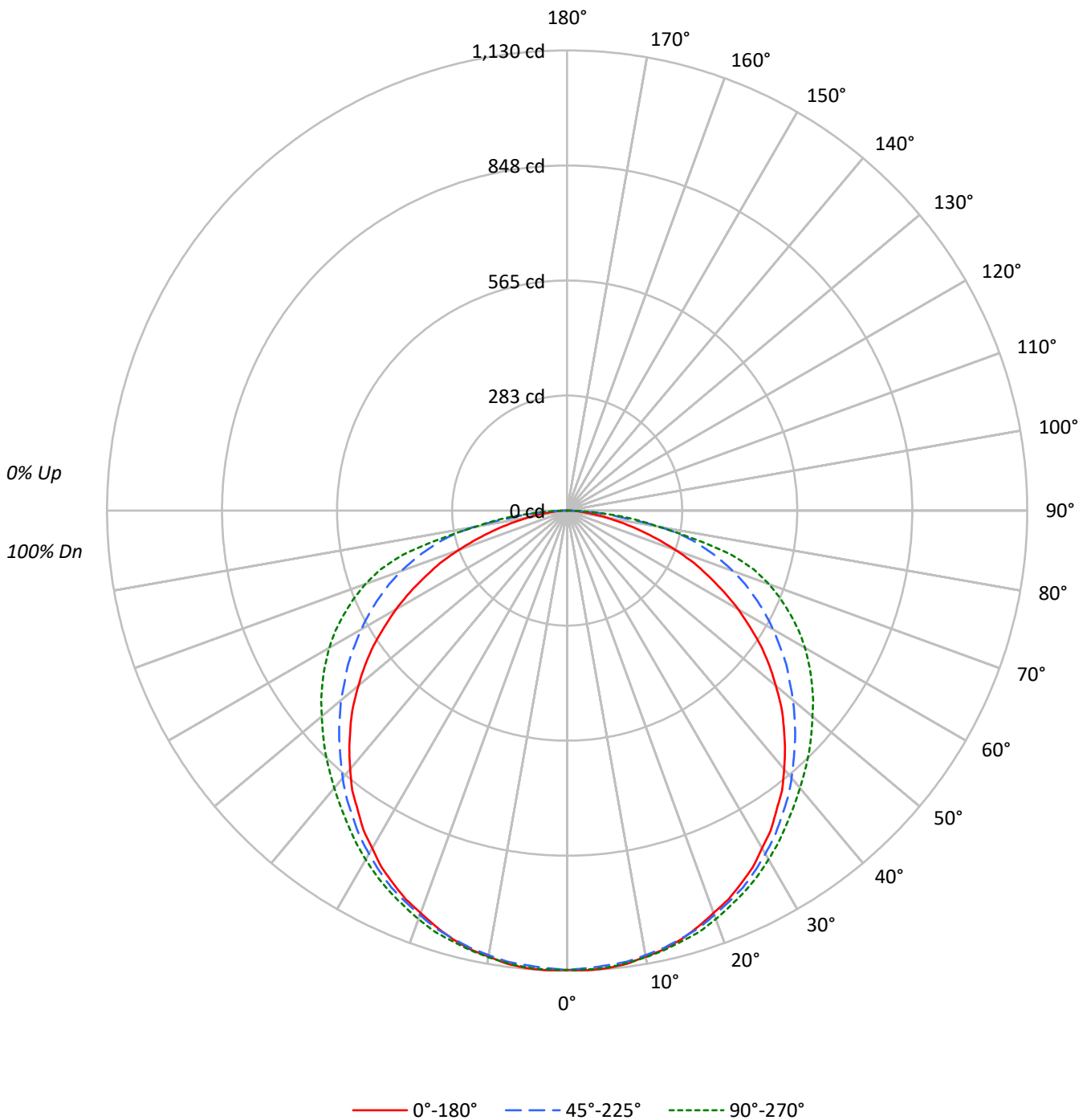
Input Watts (W): 40.827
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1518	1518	1518
5°	1524	1514	1521
10°	1519	1514	1522
15°	1517	1514	1524
20°	1506	1513	1529
25°	1500	1516	1532
30°	1487	1512	1537
35°	1473	1508	1543
40°	1456	1506	1563
45°	1432	1507	1598
50°	1400	1516	1646
55°	1365	1540	1720
60°	1307	1570	1815
65°	1223	1626	1926
70°	1113	1701	2072
75°	944	1795	2164
80°	745	1806	1751
85°	550	1374	1538



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.0	3.0
10°-20°	308.0	8.6
20°-30°	470.9	13.1
30°-40°	575.7	16.0
40°-50°	613.6	17.1
50°-60°	586.7	16.4
60°-70°	497.0	13.9
70°-80°	334.0	9.3
80°-90°	94.2	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°	885.9	24.7
0°-40°	1461.6	40.7
0°-60°	2661.9	74.2
0°-90°	3587.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3587.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1128	1128	1128	1128	1128	
5°	1128	1126	1121	1126	1126	107
15°	1089	1089	1087	1096	1094	307
25°	1011	1014	1021	1030	1032	466
35°	897	904	918	936	940	562
45°	753	765	792	826	840	581
55°	582	603	656	708	733	518
65°	384	424	511	578	605	382
75°	182	247	345	404	416	194
85°	36	73	89	96	100	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1128.1	1128.1	1128.1	1128.1	1128.1
2.5°	1129.8	1129.8	1124.5	1128.1	1128.1
5°	1128.1	1126.3	1120.9	1126.3	1126.3
7.5°	1122.7	1120.9	1117.4	1122.7	1120.9
10°	1112.0	1112.0	1108.5	1113.8	1113.8
12.5°	1103.1	1101.4	1099.6	1106.7	1104.9
15°	1088.9	1088.9	1087.1	1096.0	1094.2
17.5°	1071.1	1072.9	1074.7	1081.8	1083.6
20°	1051.5	1055.1	1056.9	1067.6	1067.6
22.5°	1033.8	1035.5	1039.1	1049.8	1049.8
25°	1010.6	1014.2	1021.3	1030.2	1032.0
27.5°	987.5	989.3	998.2	1010.6	1012.4
30°	957.2	962.6	973.3	987.5	989.3
32.5°	930.6	935.9	948.3	962.6	966.1
35°	896.8	903.9	918.1	935.9	939.5
37.5°	866.5	871.8	889.6	909.2	914.5
40°	829.1	839.8	857.6	880.7	889.6
42.5°	791.8	802.4	823.8	854.0	864.7
45°	752.6	765.1	791.8	825.6	839.8
47.5°	713.5	727.7	758.0	797.1	813.1
50°	669.0	686.8	724.2	768.6	786.4
52.5°	626.3	647.7	688.6	738.4	761.5
55°	581.8	603.2	656.5	708.1	733.1
57.5°	532.0	560.5	619.2	677.9	704.6
60°	485.7	512.4	583.6	647.7	674.3
62.5°	435.9	471.5	548.0	615.6	642.3
65°	384.3	423.5	510.6	578.3	605.0
67.5°	338.1	380.8	473.3	540.9	567.6
70°	282.9	336.3	432.4	500.0	526.7
72.5°	231.3	290.0	389.7	455.5	480.4
75°	181.5	247.3	345.2	403.9	416.3
77.5°	135.2	204.6	298.9	323.8	314.9
80°	96.1	163.7	233.1	220.6	226.0
82.5°	62.3	124.5	144.1	163.7	169.0
85°	35.6	72.9	89.0	96.1	99.6
87.5°	16.0	26.7	35.6	35.6	33.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)