

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: P277082

Luminaire Tested: **24CZ2-65HE-RDP-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277082
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: 24CZ2-65HE-RDP-UNV-L92765-W2A1-U-3500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3557.9 lumens
Efficiency: N/A
Efficacy: 72.6 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

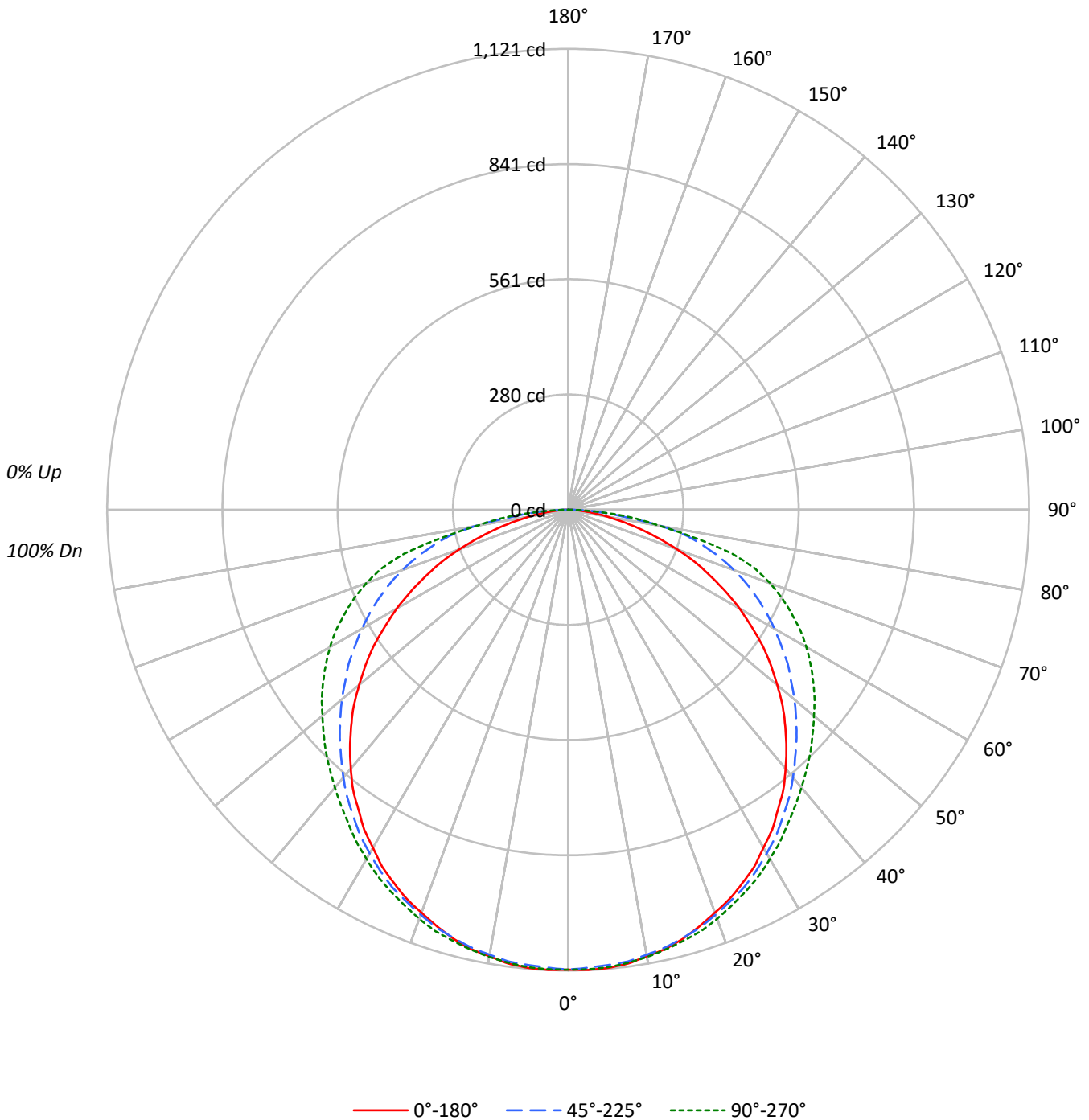
Input Watts (W): 49.011
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1505	1505	1505
5°	1511	1502	1509
10°	1507	1502	1509
15°	1504	1502	1512
20°	1493	1501	1516
25°	1488	1504	1520
30°	1475	1500	1524
35°	1461	1496	1531
40°	1444	1494	1550
45°	1420	1494	1585
50°	1389	1504	1633
55°	1354	1528	1706
60°	1297	1558	1800
65°	1214	1613	1910
70°	1104	1687	2055
75°	936	1780	2147
80°	738	1791	1736
85°	545	1362	1525



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.1	3.0
10°-20°	305.5	8.6
20°-30°	467.1	13.1
30°-40°	571.0	16.0
40°-50°	608.6	17.1
50°-60°	581.9	16.4
60°-70°	492.9	13.9
70°-80°	331.3	9.3
80°-90°	93.5	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°	878.7	24.7
0°-40°	1449.7	40.7
0°-60°	2640.2	74.2
0°-90°	3557.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3557.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1119	1119	1119	1119	1119	
5°	1119	1117	1112	1117	1117	106
15°	1080	1080	1078	1087	1085	305
25°	1002	1006	1013	1022	1024	462
35°	889	896	911	928	932	557
45°	746	759	785	819	833	576
55°	577	598	651	702	727	514
65°	381	420	506	574	600	378
75°	180	245	342	401	413	193
85°	35	72	88	95	99	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1118.9	1118.9	1118.9	1118.9	1118.9
2.5°	1120.6	1120.6	1115.3	1118.9	1118.9
5°	1118.9	1117.1	1111.8	1117.1	1117.1
7.5°	1113.6	1111.8	1108.3	1113.6	1111.8
10°	1103.0	1103.0	1099.4	1104.7	1104.7
12.5°	1094.1	1092.4	1090.6	1097.7	1095.9
15°	1080.0	1080.0	1078.3	1087.1	1085.3
17.5°	1062.4	1064.1	1065.9	1073.0	1074.7
20°	1043.0	1046.5	1048.3	1058.9	1058.9
22.5°	1025.3	1027.1	1030.6	1041.2	1041.2
25°	1002.4	1005.9	1013.0	1021.8	1023.6
27.5°	979.4	981.2	990.0	1002.4	1004.1
30°	949.4	954.7	965.3	979.4	981.2
32.5°	923.0	928.3	940.6	954.7	958.3
35°	889.4	896.5	910.6	928.3	931.8
37.5°	859.4	864.7	882.4	901.8	907.1
40°	822.4	833.0	850.6	873.6	882.4
42.5°	785.3	795.9	817.1	847.1	857.7
45°	746.5	758.8	785.3	818.8	833.0
47.5°	707.7	721.8	751.8	790.6	806.5
50°	663.5	681.2	718.3	762.4	780.0
52.5°	621.2	642.4	683.0	732.4	755.3
55°	577.1	598.3	651.2	702.4	727.1
57.5°	527.7	555.9	614.1	672.4	698.8
60°	481.8	508.2	578.8	642.4	668.8
62.5°	432.4	467.7	543.5	610.6	637.1
65°	381.2	420.0	506.5	573.5	600.0
67.5°	335.3	377.7	469.4	536.5	563.0
70°	280.6	333.5	428.8	495.9	522.4
72.5°	229.4	287.7	386.5	451.8	476.5
75°	180.0	245.3	342.4	400.6	413.0
77.5°	134.1	202.9	296.5	321.2	312.4
80°	95.3	162.4	231.2	218.8	224.1
82.5°	61.8	123.5	142.9	162.4	167.7
85°	35.3	72.4	88.2	95.3	98.8
87.5°	15.9	26.5	35.3	35.3	33.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)