

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: P277083

Luminaire Tested: **24CZ2-65HE-RDP-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277083
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-4000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3673.0 lumens
Efficiency: N/A
Efficacy: 74.2 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

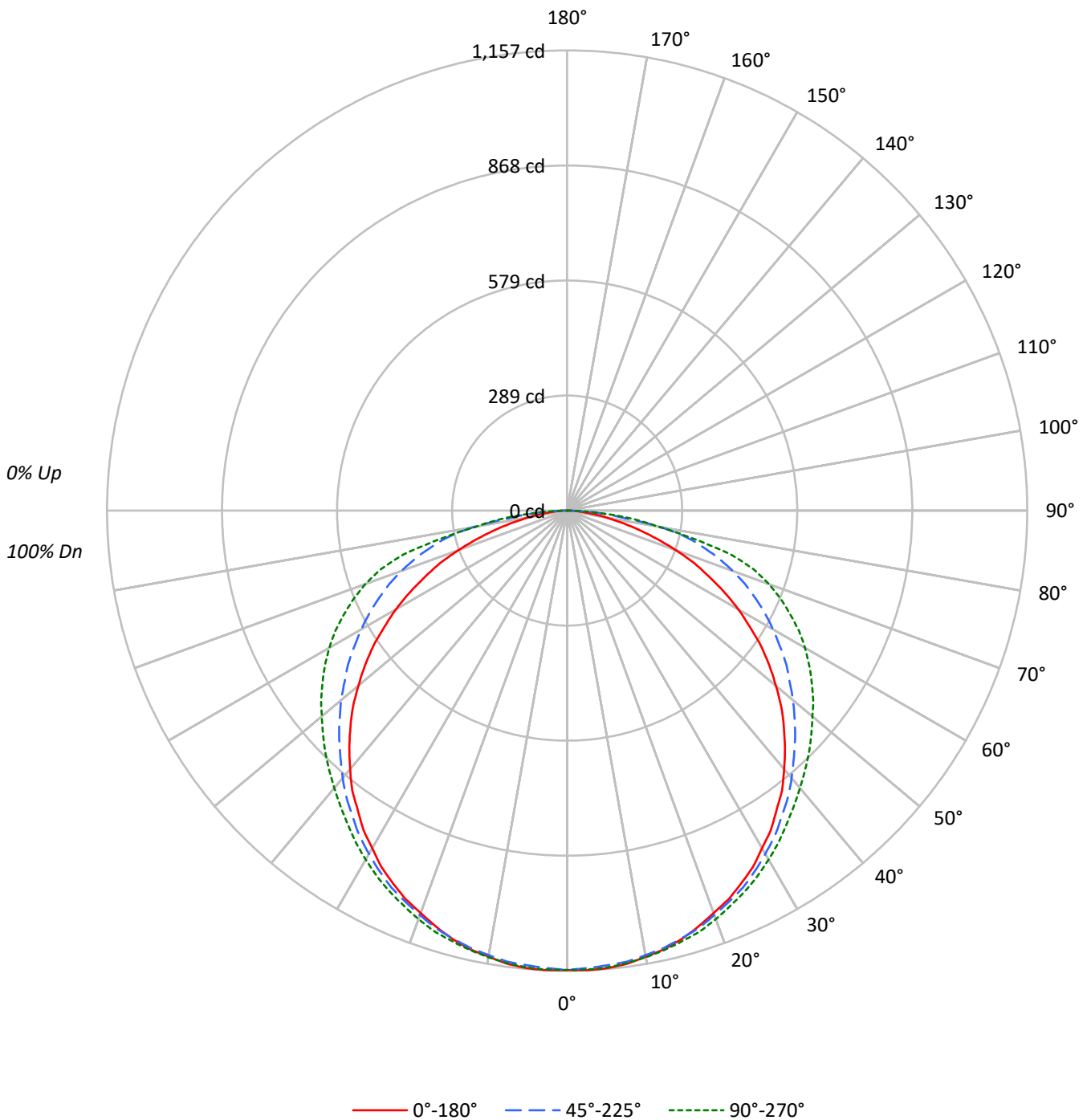
Input Watts (W): 49.476
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1554	1554	1554
5°	1560	1550	1558
10°	1556	1551	1558
15°	1553	1551	1561
20°	1542	1550	1565
25°	1536	1553	1569
30°	1523	1548	1574
35°	1508	1544	1580
40°	1491	1542	1600
45°	1466	1543	1636
50°	1434	1552	1686
55°	1398	1577	1761
60°	1338	1608	1858
65°	1253	1665	1972
70°	1140	1742	2122
75°	966	1837	2216
80°	762	1850	1793
85°	562	1406	1575



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.6	3.0
10°-20°	315.3	8.6
20°-30°	482.2	13.1
30°-40°	589.5	16.0
40°-50°	628.3	17.1
50°-60°	600.7	16.4
60°-70°	508.9	13.9
70°-80°	342.0	9.3
80°-90°	96.5	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°	907.1	24.7
0°-40°	1496.6	40.7
0°-60°	2725.6	74.2
0°-90°	3673.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3673.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1155	1155	1155	1155	1155	
5°	1155	1153	1148	1153	1153	110
15°	1115	1115	1113	1122	1120	314
25°	1035	1038	1046	1055	1057	477
35°	918	926	940	958	962	575
45°	771	783	811	845	860	594
55°	596	618	672	725	751	531
65°	394	434	523	592	619	391
75°	186	253	353	414	426	199
85°	36	75	91	98	102	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1155.1	1155.1	1155.1	1155.1	1155.1
2.5°	1156.9	1156.9	1151.4	1155.1	1155.1
5°	1155.1	1153.2	1147.8	1153.2	1153.2
7.5°	1149.6	1147.8	1144.1	1149.6	1147.8
10°	1138.7	1138.7	1135.0	1140.5	1140.5
12.5°	1129.6	1127.7	1125.9	1133.2	1131.4
15°	1115.0	1115.0	1113.2	1122.3	1120.5
17.5°	1096.8	1098.6	1100.4	1107.7	1109.5
20°	1076.7	1080.4	1082.2	1093.1	1093.1
22.5°	1058.5	1060.3	1064.0	1074.9	1074.9
25°	1034.8	1038.5	1045.8	1054.9	1056.7
27.5°	1011.1	1013.0	1022.1	1034.8	1036.6
30°	980.2	985.6	996.6	1011.1	1013.0
32.5°	952.8	958.3	971.1	985.6	989.3
35°	918.2	925.5	940.1	958.3	961.9
37.5°	887.3	892.7	910.9	931.0	936.4
40°	849.0	859.9	878.1	901.8	910.9
42.5°	810.7	821.7	843.5	874.5	885.4
45°	770.7	783.4	810.7	845.3	859.9
47.5°	730.6	745.1	776.1	816.2	832.6
50°	685.0	703.2	741.5	787.0	805.3
52.5°	641.3	663.2	705.1	756.1	779.8
55°	595.8	617.6	672.3	725.1	750.6
57.5°	544.7	573.9	634.0	694.1	721.5
60°	497.4	524.7	597.6	663.2	690.5
62.5°	446.4	482.8	561.1	630.4	657.7
65°	393.5	433.6	522.9	592.1	619.4
67.5°	346.2	389.9	484.6	553.8	581.2
70°	289.7	344.3	442.7	511.9	539.3
72.5°	236.8	297.0	399.0	466.4	491.9
75°	185.8	253.2	353.4	413.6	426.3
77.5°	138.5	209.5	306.1	331.6	322.5
80°	98.4	167.6	238.7	225.9	231.4
82.5°	63.8	127.5	147.6	167.6	173.1
85°	36.4	74.7	91.1	98.4	102.0
87.5°	16.4	27.3	36.4	36.4	34.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)