

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: P263427

Luminaire Tested: **24CZ-LD5-65-SQP-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263427
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25695)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-65-SQP-UNV-L92765-W2A1-U-5700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4079.0 lumens
Efficiency: N/A
Efficacy: 80.9 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.31 / 1.42
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

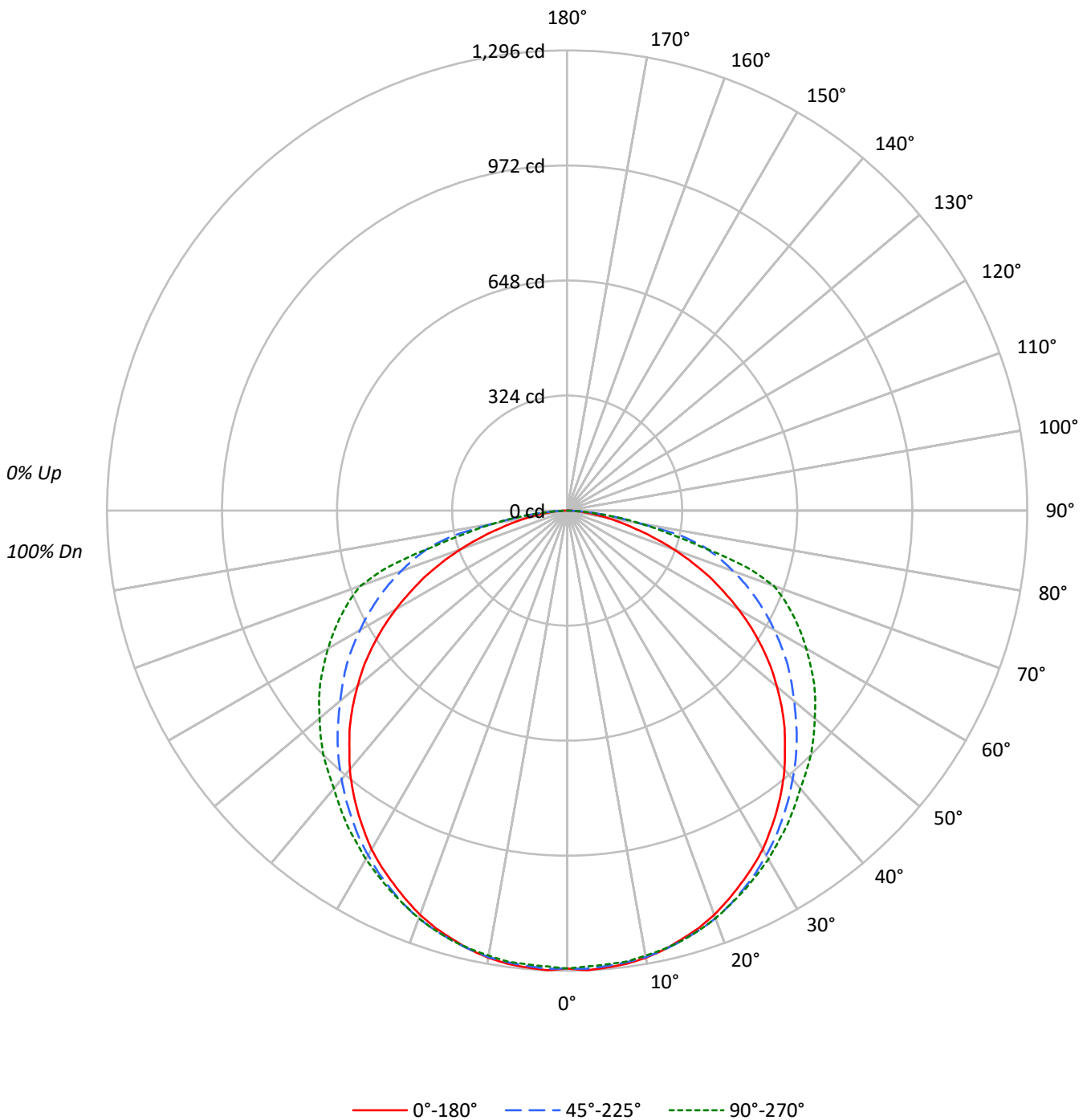
Input Watts (W): 50.406
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	97	93	96	93	90	92	90	87	89	87	84	82
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67
3	89	78	69	62	86	76	68	62	73	66	60	70	64	59	67	63	58	56
4	81	68	59	52	79	67	58	52	64	57	51	62	56	50	60	54	50	47
5	74	61	51	45	72	60	51	44	57	50	44	55	49	43	54	48	43	41
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	28
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1735	1735	1735
5°	1744	1739	1733
10°	1747	1744	1739
15°	1740	1746	1746
20°	1735	1750	1750
25°	1720	1745	1752
30°	1712	1741	1761
35°	1692	1737	1775
40°	1673	1736	1795
45°	1648	1740	1848
50°	1614	1746	1905
55°	1572	1779	1992
60°	1502	1814	2092
65°	1409	1871	2240
70°	1260	1956	2437
75°	1041	2092	2015
80°	849	1616	1633
85°	682	1073	1008



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.5	3.0
10°-20°	353.4	8.7
20°-30°	540.1	13.2
30°-40°	660.5	16.2
40°-50°	706.8	17.3
50°-60°	676.8	16.6
60°-70°	572.5	14.0
70°-80°	362.9	8.9
80°-90°	83.5	2.0
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°	1015.9	24.9
0°-40°	1676.5	41.1
0°-60°	3060.1	75.0
0°-90°	4079.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4079.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1289	1289	1289	1289	1289	
5°	1292	1285	1287	1285	1283	123
15°	1249	1247	1254	1254	1254	353
25°	1159	1159	1176	1180	1180	535
35°	1030	1037	1058	1072	1081	645
45°	866	881	914	952	971	667
55°	670	691	758	822	849	598
65°	442	485	588	668	704	436
75°	200	282	402	400	388	218
85°	44	67	70	63	65	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1289.4	1289.4	1289.4	1289.4	1289.4
2.5°	1295.8	1289.4	1291.6	1289.4	1285.2
5°	1291.6	1285.2	1287.3	1285.2	1283.1
7.5°	1287.3	1281.0	1283.1	1281.0	1281.0
10°	1278.9	1272.6	1276.8	1274.7	1272.6
12.5°	1266.3	1262.1	1266.3	1264.2	1264.2
15°	1249.4	1247.3	1253.6	1253.6	1253.6
17.5°	1232.6	1230.5	1238.9	1238.9	1238.9
20°	1211.5	1209.4	1222.0	1222.0	1222.0
22.5°	1186.2	1184.1	1201.0	1201.0	1201.0
25°	1158.8	1158.8	1175.7	1179.9	1179.9
27.5°	1131.4	1131.4	1150.4	1156.7	1156.7
30°	1101.9	1101.9	1120.9	1129.3	1133.5
32.5°	1066.1	1070.3	1091.4	1101.9	1106.1
35°	1030.3	1036.6	1057.7	1072.4	1080.9
37.5°	992.4	998.7	1024.0	1040.8	1051.4
40°	952.3	960.8	988.2	1009.2	1021.9
42.5°	908.1	920.7	952.3	979.7	996.6
45°	866.0	880.7	914.4	952.3	971.3
47.5°	819.6	836.5	874.4	922.8	941.8
50°	771.1	788.0	834.3	889.1	910.2
52.5°	722.7	741.6	796.4	855.4	880.7
55°	670.0	691.1	758.5	821.7	849.1
57.5°	615.2	640.5	716.4	783.8	813.3
60°	558.3	589.9	674.2	745.9	777.5
62.5°	499.3	537.3	632.1	707.9	741.6
65°	442.5	484.6	587.8	667.9	703.7
67.5°	381.4	434.0	543.6	630.0	663.7
70°	320.3	381.4	497.2	585.7	619.4
72.5°	259.2	332.9	450.9	530.9	530.9
75°	200.2	282.3	402.4	400.3	387.7
77.5°	151.7	236.0	330.8	282.3	284.4
80°	109.6	189.6	208.6	208.6	210.7
82.5°	73.7	145.4	134.8	132.7	137.0
85°	44.2	67.4	69.5	63.2	65.3
87.5°	21.1	23.2	19.0	12.6	12.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)