

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: P263286

Luminaire Tested: **24CZ-LD5-65-SQP-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263286
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-L82765-W2A1-U-3000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4085.0 lumens
Efficiency: N/A
Efficacy: 84.1 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

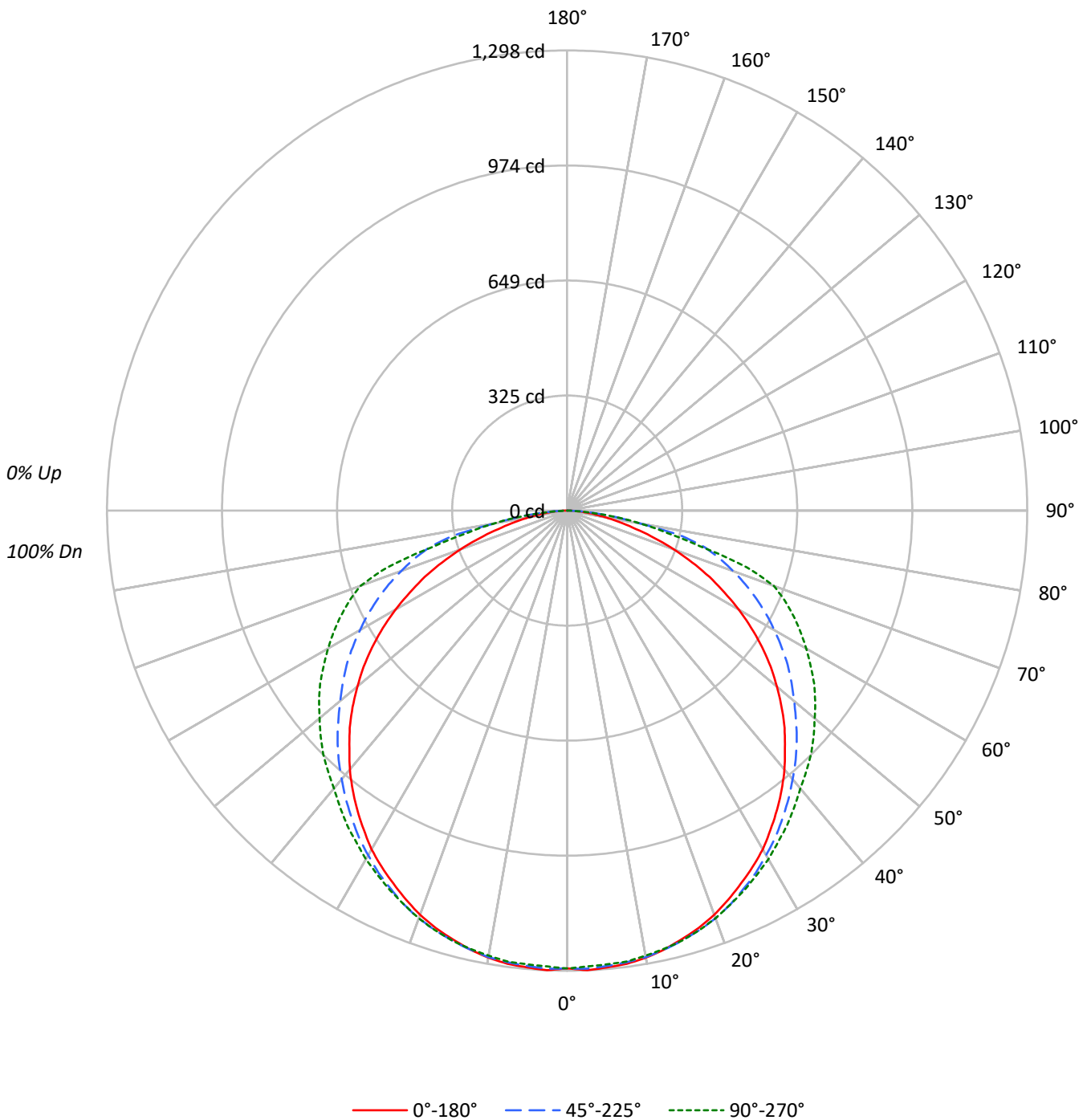
Input Watts (W): 48.546
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1737	1737	1737
5°	1747	1741	1736
10°	1750	1747	1741
15°	1743	1749	1749
20°	1737	1752	1752
25°	1723	1748	1754
30°	1715	1744	1764
35°	1695	1740	1778
40°	1675	1738	1798
45°	1650	1743	1851
50°	1617	1749	1908
55°	1574	1782	1995
60°	1505	1817	2095
65°	1411	1874	2244
70°	1262	1959	2441
75°	1042	2095	2018
80°	850	1619	1635
85°	684	1074	1010



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.6	3.0
10°-20°	353.9	8.7
20°-30°	540.9	13.2
30°-40°	661.5	16.2
40°-50°	707.8	17.3
50°-60°	677.8	16.6
60°-70°	573.4	14.0
70°-80°	363.4	8.9
80°-90°	83.6	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°	1017.4	24.9
0°-40°	1678.9	41.1
0°-60°	3064.6	75.0
0°-90°	4085.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4085.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1291	1291	1291	1291	1291	
5°	1294	1287	1289	1287	1285	123
15°	1251	1249	1256	1256	1256	353
25°	1160	1160	1177	1182	1182	535
35°	1032	1038	1059	1074	1082	646
45°	867	882	916	954	973	668
55°	671	692	760	823	850	598
65°	443	485	589	669	705	437
75°	200	283	403	401	388	218
85°	44	68	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°	1291.3	1291.3	1291.3	1291.3	1291.3
2.5°	1297.7	1291.3	1293.5	1291.3	1287.1
5°	1293.5	1287.1	1289.2	1287.1	1285.0
7.5°	1289.2	1282.9	1285.0	1282.9	1282.9
10°	1280.8	1274.5	1278.7	1276.6	1274.5
12.5°	1268.1	1263.9	1268.1	1266.0	1266.0
15°	1251.3	1249.1	1255.5	1255.5	1255.5
17.5°	1234.4	1232.3	1240.7	1240.7	1240.7
20°	1213.3	1211.2	1223.8	1223.8	1223.8
22.5°	1188.0	1185.8	1202.7	1202.7	1202.7
25°	1160.5	1160.5	1177.4	1181.6	1181.6
27.5°	1133.1	1133.1	1152.1	1158.4	1158.4
30°	1103.6	1103.6	1122.5	1131.0	1135.2
32.5°	1067.7	1071.9	1093.0	1103.6	1107.8
35°	1031.8	1038.1	1059.2	1074.0	1082.5
37.5°	993.8	1000.2	1025.5	1042.4	1052.9
40°	953.7	962.2	989.6	1010.7	1023.4
42.5°	909.4	922.1	953.7	981.2	998.0
45°	867.2	882.0	915.8	953.7	972.7
47.5°	820.8	837.7	875.7	924.2	943.2
50°	772.3	789.2	835.6	890.4	911.5
52.5°	723.7	742.7	797.6	856.7	882.0
55°	671.0	692.1	759.6	822.9	850.3
57.5°	616.1	641.5	717.4	784.9	814.5
60°	559.2	590.8	675.2	747.0	778.6
62.5°	500.1	538.1	633.0	709.0	742.7
65°	443.1	485.3	588.7	668.9	704.8
67.5°	381.9	434.7	544.4	630.9	664.7
70°	320.7	381.9	498.0	586.6	620.4
72.5°	259.5	333.4	451.5	531.7	531.7
75°	200.5	282.7	403.0	400.9	388.2
77.5°	151.9	236.3	331.3	282.7	284.9
80°	109.7	189.9	208.9	208.9	211.0
82.5°	73.9	145.6	135.0	132.9	137.2
85°	44.3	67.5	69.6	63.3	65.4
87.5°	21.1	23.2	19.0	12.7	12.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)