

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: P263839

Luminaire Tested: **24CZ-LD5-60-RDP-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263839
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25696)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-60-RDP-UNV-L92765-W2A1-U-6500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3979.0 lumens
Efficiency: N/A
Efficacy: 85.9 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

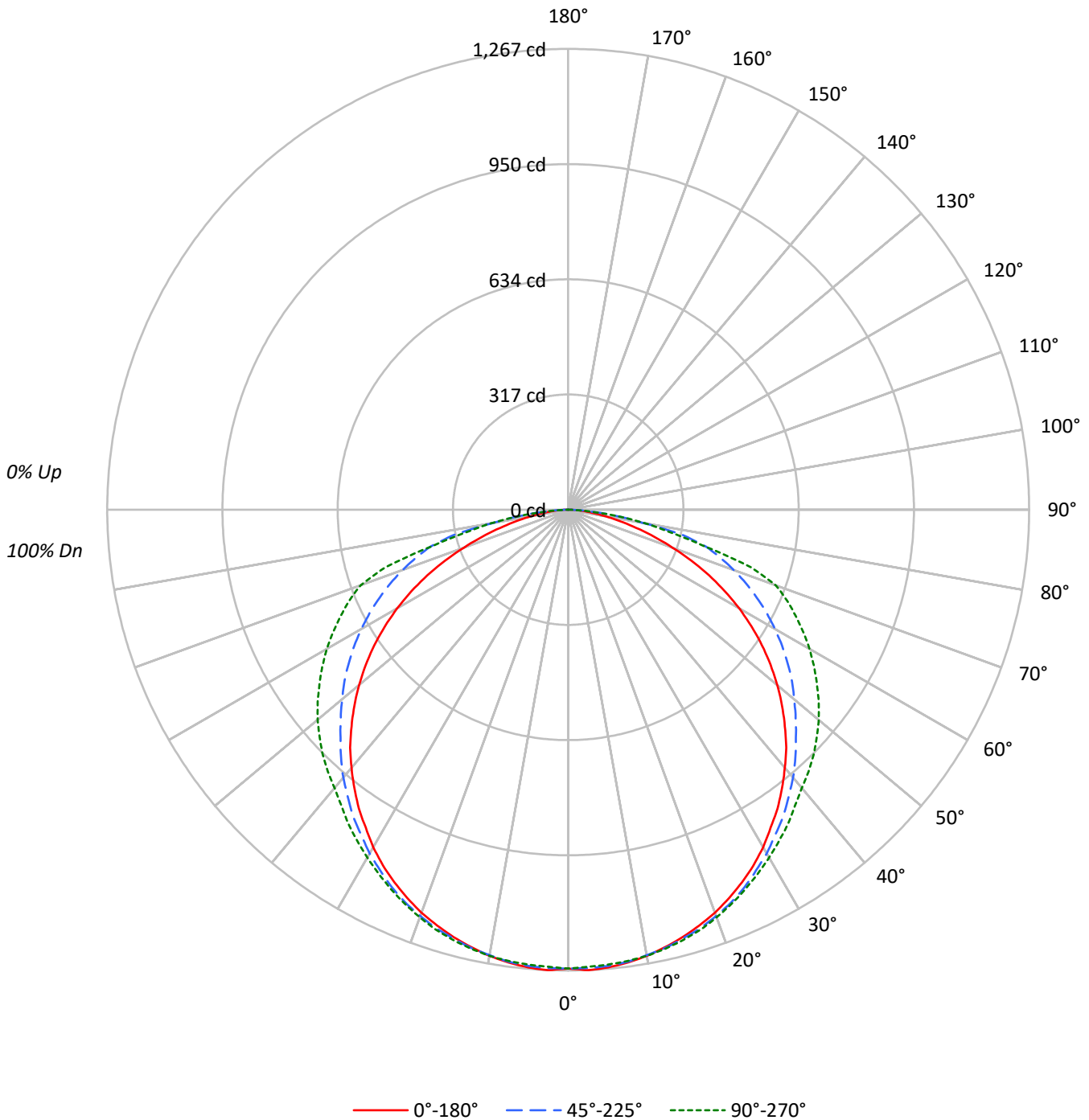
Input Watts (W): 46.314
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	62	58	56
4	81	68	59	52	78	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	61	48	40	34	47	39	34	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	27
9	55	41	33	27	53	41	32	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°	1697	1697	1697
5°	1706	1701	1696
10°	1702	1699	1702
15°	1694	1700	1705
20°	1688	1702	1708
25°	1678	1701	1710
30°	1665	1695	1716
35°	1647	1692	1731
40°	1627	1689	1754
45°	1603	1685	1815
50°	1570	1697	1882
55°	1525	1728	1957
60°	1460	1766	2061
65°	1359	1821	2195
70°	1202	1903	2389
75°	1008	2036	2006
80°	804	1609	1670
85°	634	1088	997



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.6	3.0
10°-20°	344.3	8.7
20°-30°	525.9	13.2
30°-40°	643.0	16.2
40°-50°	688.2	17.3
50°-60°	660.1	16.6
60°-70°	557.4	14.0
70°-80°	356.2	9.0
80°-90°	84.3	2.1
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°	989.9	24.9
0°-40°	1632.8	41.0
0°-60°	2981.2	74.9
0°-90°	3979.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3979.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1261	1261	1261	1261	1261	
5°	1263	1256	1259	1258	1256	120
15°	1216	1212	1220	1224	1224	343
25°	1130	1128	1146	1150	1152	521
35°	1003	1011	1030	1044	1054	627
45°	842	856	885	926	954	650
55°	650	672	736	803	834	580
65°	427	468	572	652	689	421
75°	194	276	392	400	386	209
85°	41	69	70	69	65	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1261.4	1261.4	1261.4	1261.4	1261.4
2.5°	1267.3	1259.4	1261.4	1261.4	1257.5
5°	1263.3	1255.5	1259.4	1257.5	1255.5
7.5°	1255.5	1249.6	1253.5	1253.5	1251.6
10°	1245.7	1239.8	1243.7	1245.7	1245.7
12.5°	1232.0	1228.1	1234.0	1234.0	1235.9
15°	1216.3	1212.4	1220.2	1224.2	1224.2
17.5°	1198.7	1196.7	1206.5	1208.5	1210.5
20°	1179.1	1177.2	1188.9	1188.9	1192.8
22.5°	1155.6	1153.7	1169.3	1169.3	1173.2
25°	1130.1	1128.2	1145.8	1149.7	1151.7
27.5°	1102.7	1100.8	1118.4	1124.3	1128.2
30°	1071.4	1071.4	1091.0	1098.8	1104.7
32.5°	1036.1	1042.0	1059.6	1071.4	1079.2
35°	1002.8	1010.7	1030.3	1044.0	1053.8
37.5°	965.6	973.5	995.0	1012.6	1024.4
40°	926.4	936.2	961.7	981.3	998.9
42.5°	887.3	897.1	924.5	953.9	977.4
45°	842.2	855.9	885.3	926.4	953.9
47.5°	797.2	810.9	848.1	899.0	926.4
50°	750.2	765.8	810.9	869.6	899.0
52.5°	701.2	718.8	775.6	838.3	867.7
55°	650.3	671.8	736.5	803.1	834.4
57.5°	597.4	620.9	697.3	767.8	801.1
60°	542.5	571.9	656.2	730.6	765.8
62.5°	485.7	521.0	615.0	691.4	728.6
65°	427.0	468.1	571.9	652.2	689.4
67.5°	366.3	421.1	528.8	613.1	650.3
70°	305.6	370.2	483.8	570.0	607.2
72.5°	248.7	323.2	438.7	519.0	526.9
75°	193.9	276.2	391.7	399.6	385.9
77.5°	144.9	229.2	323.2	287.9	286.0
80°	103.8	184.1	207.6	213.5	215.5
82.5°	68.6	139.1	135.1	139.1	137.1
85°	41.1	68.6	70.5	68.6	64.6
87.5°	19.6	25.5	19.6	17.6	15.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)