

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: P263693

Luminaire Tested: **24CZ-LD5-55-RDP-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263693
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-LD5-55-RDP-UNV-L82765-W2A1-U-5500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4011.0 lumens
Efficiency: N/A
Efficacy: 97.4 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

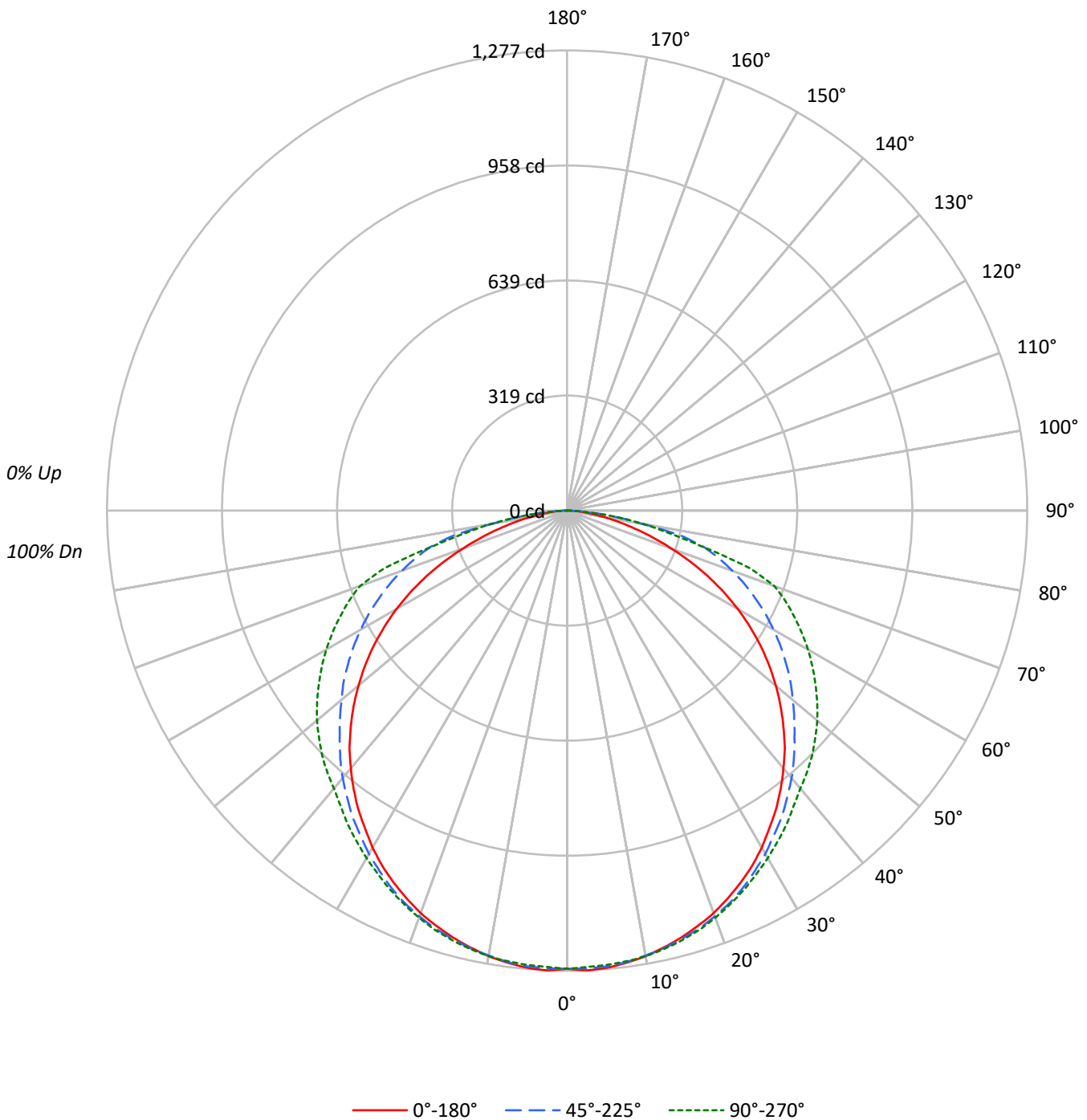
Input Watts (W): 41.199
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	61	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°	1711	1711	1711
5°	1720	1715	1709
10°	1716	1713	1716
15°	1708	1713	1719
20°	1702	1716	1722
25°	1691	1715	1724
30°	1678	1709	1730
35°	1660	1706	1745
40°	1640	1703	1769
45°	1615	1698	1830
50°	1583	1711	1897
55°	1538	1742	1973
60°	1472	1780	2077
65°	1370	1835	2213
70°	1212	1919	2408
75°	1016	2053	2022
80°	810	1622	1683
85°	641	1098	1007



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.6	3.0
10°-20°	347.1	8.7
20°-30°	530.1	13.2
30°-40°	648.1	16.2
40°-50°	693.7	17.3
50°-60°	665.4	16.6
60°-70°	561.9	14.0
70°-80°	359.1	9.0
80°-90°	84.9	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°	997.8	24.9
0°-40°	1646.0	41.0
0°-60°	3005.1	74.9
0°-90°	4011.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4011.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1272	1272	1272	1272	1272	
5°	1274	1266	1270	1268	1266	121
15°	1226	1222	1230	1234	1234	346
25°	1139	1137	1155	1159	1161	525
35°	1011	1019	1038	1052	1062	632
45°	849	863	892	934	962	655
55°	656	677	742	810	841	585
65°	430	472	576	658	695	425
75°	196	278	395	403	389	210
85°	42	69	71	69	65	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1271.5	1271.5	1271.5	1271.5	1271.5
2.5°	1277.4	1269.5	1271.5	1271.5	1267.6
5°	1273.5	1265.6	1269.5	1267.6	1265.6
7.5°	1265.6	1259.7	1263.6	1263.6	1261.6
10°	1255.7	1249.8	1253.8	1255.7	1255.7
12.5°	1241.9	1238.0	1243.9	1243.9	1245.9
15°	1226.1	1222.2	1230.1	1234.0	1234.0
17.5°	1208.3	1206.4	1216.2	1218.2	1220.2
20°	1188.6	1186.6	1198.5	1198.5	1202.4
22.5°	1164.9	1162.9	1178.7	1178.7	1182.7
25°	1139.2	1137.3	1155.0	1159.0	1161.0
27.5°	1111.6	1109.6	1127.4	1133.3	1137.3
30°	1080.0	1080.0	1099.7	1107.6	1113.6
32.5°	1044.5	1050.4	1068.2	1080.0	1087.9
35°	1010.9	1018.8	1038.5	1052.4	1062.2
37.5°	973.4	981.3	1003.0	1020.8	1032.6
40°	933.9	943.8	969.4	989.2	1006.9
42.5°	894.4	904.3	931.9	961.5	985.2
45°	849.0	862.8	892.4	933.9	961.5
47.5°	803.6	817.4	854.9	906.3	933.9
50°	756.2	772.0	817.4	876.6	906.3
52.5°	706.8	724.6	781.9	845.0	874.7
55°	655.5	677.2	742.4	809.5	841.1
57.5°	602.2	625.9	702.9	774.0	807.5
60°	546.9	576.5	661.4	736.5	772.0
62.5°	489.7	525.2	620.0	697.0	734.5
65°	430.4	471.9	576.5	657.5	695.0
67.5°	369.2	424.5	533.1	618.0	655.5
70°	308.0	373.2	487.7	574.6	612.1
72.5°	250.8	325.8	442.3	523.2	531.1
75°	195.5	278.4	394.9	402.8	389.0
77.5°	146.1	231.0	325.8	290.2	288.3
80°	104.6	185.6	209.3	215.2	217.2
82.5°	69.1	140.2	136.2	140.2	138.2
85°	41.5	69.1	71.1	69.1	65.2
87.5°	19.7	25.7	19.7	17.8	15.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)