

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: P263606

Luminaire Tested: **24CZ-LD5-65-RDP-UNV-L93050-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263606
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-LD5-65-RDP-UNV-L93050-W2A1-U-5000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4242.7 lumens
Efficiency: N/A
Efficacy: 83.2 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

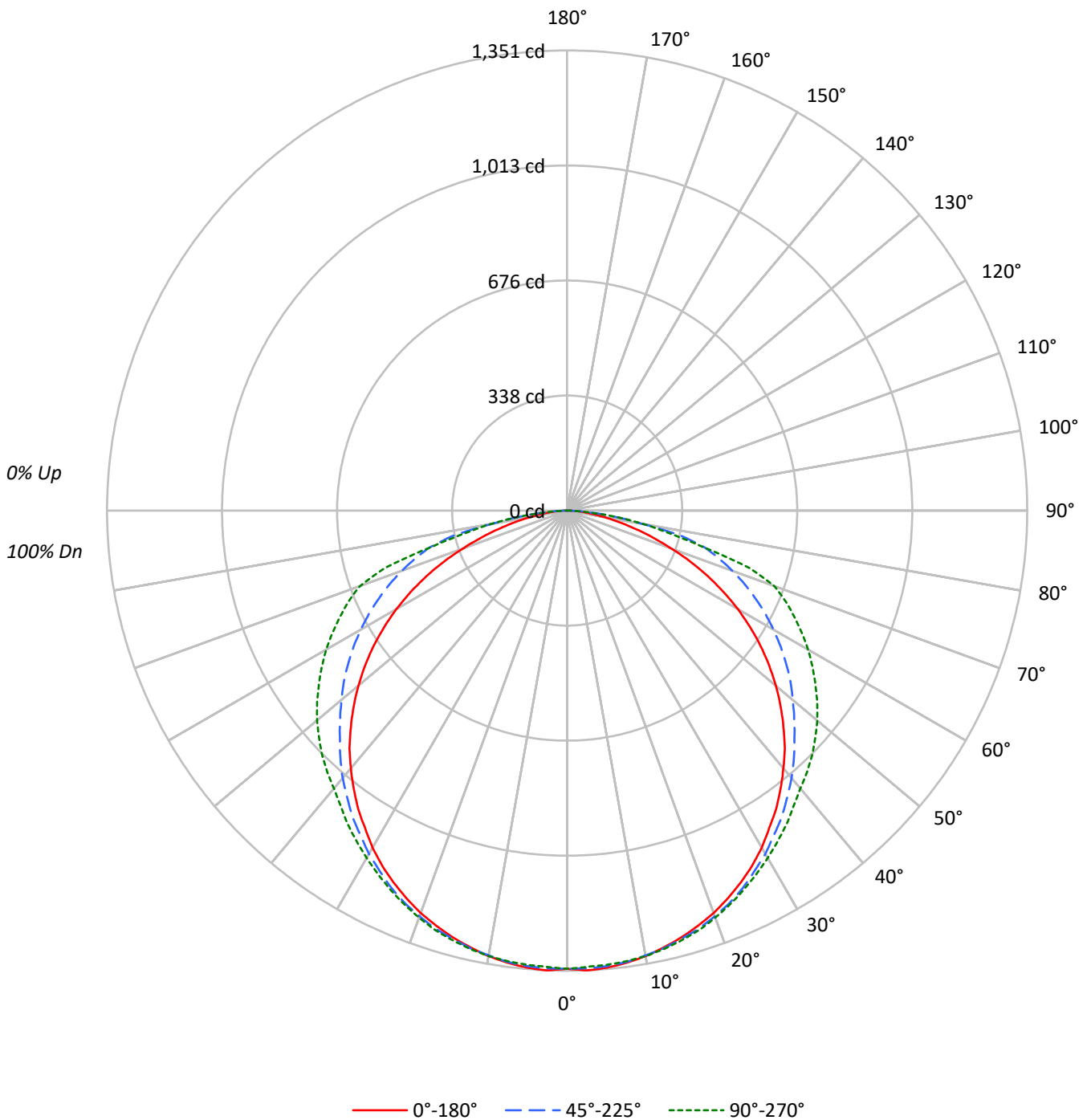
Input Watts (W): 50.972556
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			20			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°	1810	1810	1810
5°	1819	1814	1808
10°	1815	1812	1815
15°	1807	1812	1818
20°	1800	1815	1821
25°	1789	1814	1823
30°	1775	1807	1830
35°	1756	1804	1846
40°	1735	1801	1871
45°	1709	1796	1935
50°	1674	1810	2007
55°	1627	1842	2087
60°	1557	1883	2197
65°	1450	1941	2340
70°	1282	2030	2547
75°	1075	2171	2139
80°	858	1715	1780
85°	678	1161	1064



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.6	3.0
10°-20°	367.1	8.7
20°-30°	560.8	13.2
30°-40°	685.6	16.2
40°-50°	733.8	17.3
50°-60°	703.9	16.6
60°-70°	594.3	14.0
70°-80°	379.8	9.0
80°-90°	89.8	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°	1055.5	24.9
0°-40°	1741.0	41.0
0°-60°	3178.7	74.9
0°-90°	4242.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4242.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1345	1345	1345	1345	1345	
5°	1347	1339	1343	1341	1339	128
15°	1297	1293	1301	1305	1305	366
25°	1205	1203	1222	1226	1228	555
35°	1069	1078	1098	1113	1124	669
45°	898	913	944	988	1017	693
55°	693	716	785	856	890	619
65°	455	499	610	696	735	449
75°	207	294	418	426	411	223
85°	44	73	75	73	69	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1345.0	1345.0	1345.0	1345.0	1345.0
2.5°	1351.2	1342.9	1345.0	1345.0	1340.8
5°	1347.1	1338.7	1342.9	1340.8	1338.7
7.5°	1338.7	1332.4	1336.6	1336.6	1334.5
10°	1328.3	1322.0	1326.2	1328.3	1328.3
12.5°	1313.6	1309.5	1315.7	1315.7	1317.8
15°	1296.9	1292.8	1301.1	1305.3	1305.3
17.5°	1278.1	1276.1	1286.5	1288.6	1290.7
20°	1257.3	1255.2	1267.7	1267.7	1271.9
22.5°	1232.2	1230.1	1246.8	1246.8	1251.0
25°	1205.0	1203.0	1221.8	1225.9	1228.0
27.5°	1175.8	1173.7	1192.5	1198.8	1203.0
30°	1142.4	1142.4	1163.3	1171.6	1177.9
32.5°	1104.8	1111.1	1129.9	1142.4	1150.7
35°	1069.3	1077.7	1098.5	1113.2	1123.6
37.5°	1029.6	1038.0	1060.9	1079.7	1092.3
40°	987.8	998.3	1025.4	1046.3	1065.1
42.5°	946.1	956.5	985.8	1017.1	1042.1
45°	898.0	912.7	944.0	987.8	1017.1
47.5°	850.0	864.6	904.3	958.6	987.8
50°	799.9	816.6	864.6	927.3	958.6
52.5°	747.7	766.5	827.0	893.9	925.2
55°	693.4	716.3	785.3	856.3	889.7
57.5°	637.0	662.0	743.5	818.7	854.2
60°	578.5	609.8	699.6	779.0	816.6
62.5°	517.9	555.5	655.8	737.2	776.9
65°	455.3	499.1	609.8	695.5	735.1
67.5°	390.5	449.0	563.9	653.7	693.4
70°	325.8	394.7	515.9	607.7	647.4
72.5°	265.2	344.6	467.8	553.4	561.8
75°	206.8	294.5	417.7	426.0	411.4
77.5°	154.5	244.4	344.6	307.0	304.9
80°	110.7	196.3	221.4	227.6	229.7
82.5°	73.1	148.3	144.1	148.3	146.2
85°	43.9	73.1	75.2	73.1	68.9
87.5°	20.9	27.2	20.9	18.8	16.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)