

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: P277095

Luminaire Tested: **24CZ2-70HE-RDP-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277095
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1808-918-19)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-70HE-RDP-UNV-L92765-W2A1-U-5500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4210.7 lumens
Efficiency: N/A
Efficacy: 76.4 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

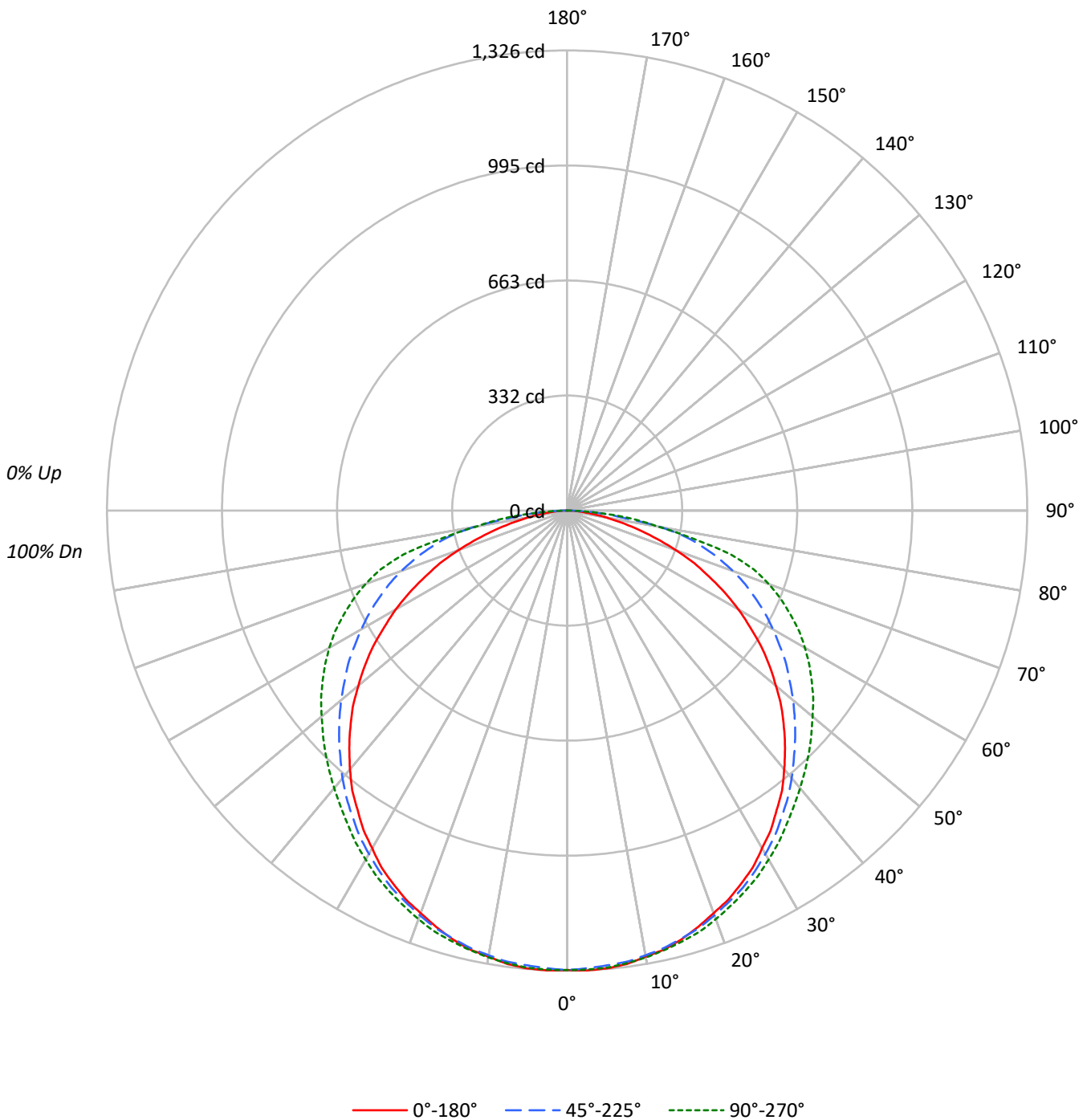
Input Watts (W): 55.149
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	96	92	96	93	89	92	89	87	88	86	84	82
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67
3	88	77	68	62	86	76	67	61	72	66	60	70	64	59	67	62	58	56
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49	47
5	74	60	51	44	72	59	51	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	45	38	51	44	38	50	43	37	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1782	1782	1782
5°	1788	1777	1786
10°	1783	1778	1786
15°	1780	1778	1789
20°	1767	1776	1794
25°	1761	1780	1798
30°	1746	1775	1804
35°	1729	1770	1811
40°	1710	1768	1834
45°	1681	1768	1876
50°	1644	1779	1932
55°	1602	1808	2019
60°	1534	1843	2130
65°	1436	1908	2261
70°	1306	1996	2432
75°	1107	2106	2541
80°	874	2120	2055
85°	645	1612	1806



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.6	3.0
10°-20°	361.5	8.6
20°-30°	552.8	13.1
30°-40°	675.8	16.0
40°-50°	720.3	17.1
50°-60°	688.7	16.4
60°-70°	583.4	13.9
70°-80°	392.1	9.3
80°-90°	110.6	2.6
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°	1039.9	24.7
0°-40°	1715.7	40.7
0°-60°	3124.6	74.2
0°-90°	4210.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4210.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1324	1324	1324	1324	1324	
5°	1324	1322	1316	1322	1322	126
15°	1278	1278	1276	1286	1284	360
25°	1186	1190	1199	1209	1211	547
35°	1053	1061	1078	1099	1103	659
45°	884	898	929	969	986	681
55°	683	708	771	831	860	608
65°	451	497	599	679	710	448
75°	213	290	405	474	489	228
85°	42	86	104	113	117	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1324.1	1324.1	1324.1	1324.1	1324.1
2.5°	1326.2	1326.2	1320.0	1324.1	1324.1
5°	1324.1	1322.0	1315.8	1322.0	1322.0
7.5°	1317.9	1315.8	1311.6	1317.9	1315.8
10°	1305.3	1305.3	1301.2	1307.4	1307.4
12.5°	1294.9	1292.8	1290.7	1299.1	1297.0
15°	1278.2	1278.2	1276.1	1286.5	1284.5
17.5°	1257.3	1259.4	1261.5	1269.8	1271.9
20°	1234.3	1238.5	1240.6	1253.1	1253.1
22.5°	1213.4	1215.5	1219.7	1232.2	1232.2
25°	1186.3	1190.5	1198.8	1209.3	1211.4
27.5°	1159.1	1161.2	1171.7	1186.3	1188.4
30°	1123.6	1129.9	1142.4	1159.1	1161.2
32.5°	1092.3	1098.6	1113.2	1129.9	1134.1
35°	1052.6	1061.0	1077.7	1098.6	1102.7
37.5°	1017.1	1023.4	1044.3	1067.2	1073.5
40°	973.3	985.8	1006.7	1033.8	1044.3
42.5°	929.4	941.9	967.0	1002.5	1015.0
45°	883.5	898.1	929.4	969.1	985.8
47.5°	837.5	854.2	889.7	935.7	954.5
50°	785.3	806.2	850.0	902.2	923.1
52.5°	735.2	760.2	808.3	866.7	893.9
55°	683.0	708.0	770.7	831.2	860.5
57.5°	624.5	657.9	726.8	795.7	827.1
60°	570.2	601.5	685.0	760.2	791.6
62.5°	511.7	553.5	643.3	722.6	754.0
65°	451.1	497.1	599.4	678.8	710.1
67.5°	396.8	446.9	555.6	634.9	666.2
70°	332.1	394.7	507.5	586.9	618.2
72.5°	271.5	340.4	457.4	534.7	563.9
75°	213.0	290.3	405.2	474.1	488.7
77.5°	158.7	240.2	350.9	380.1	369.7
80°	112.8	192.1	273.6	259.0	265.2
82.5°	73.1	146.2	169.2	192.1	198.4
85°	41.8	85.6	104.4	112.8	117.0
87.5°	18.8	31.3	41.8	41.8	39.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)