

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: P276954

Luminaire Tested: **24CZ2-70HE-RDP-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276954
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-L82765-W2A1-U-2700K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4116.5 lumens
Efficiency: N/A
Efficacy: 76.7 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

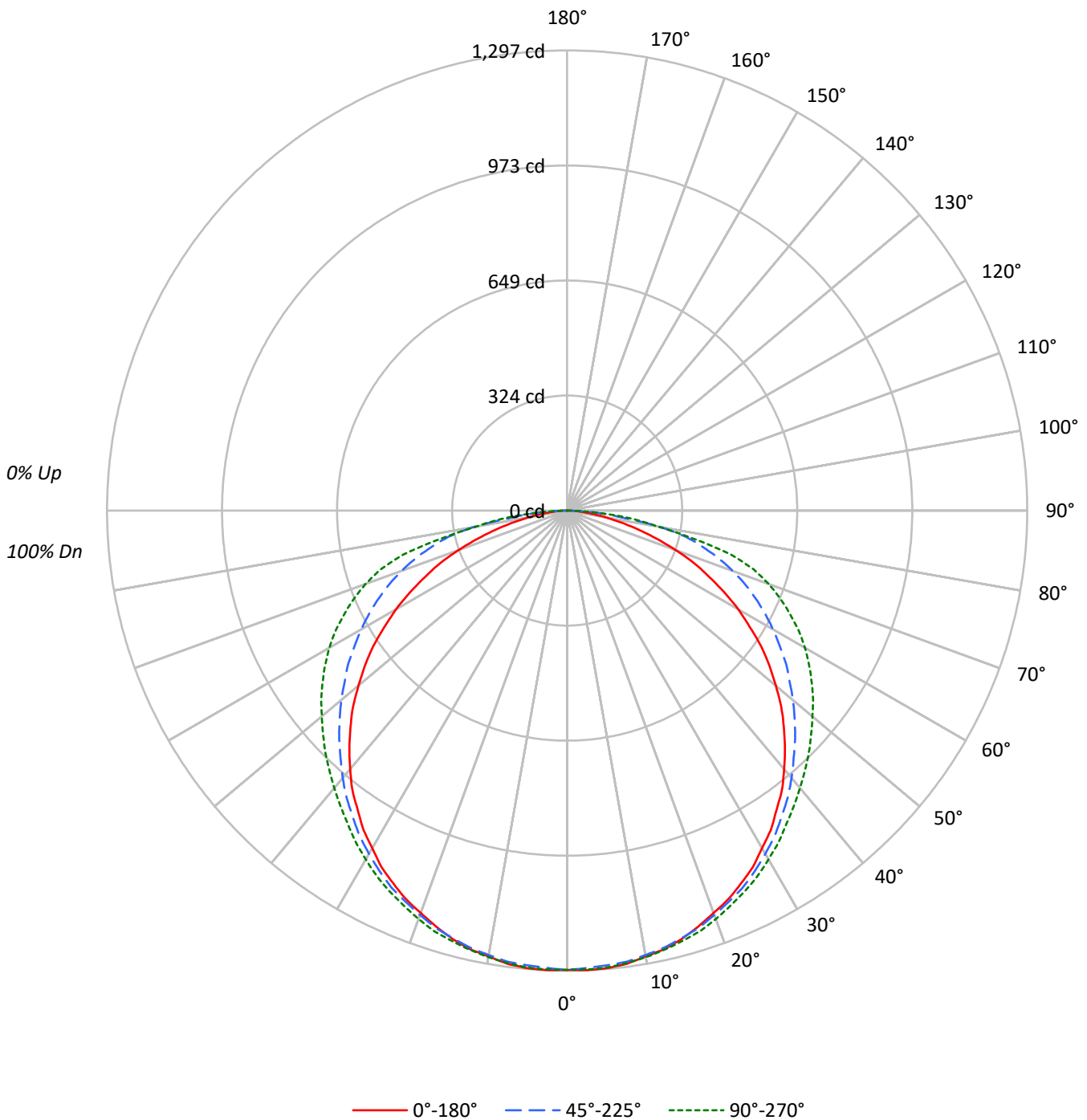
Input Watts (W): 53.661
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1742	1742	1742
5°	1748	1737	1746
10°	1743	1738	1746
15°	1741	1738	1749
20°	1728	1737	1754
25°	1722	1740	1758
30°	1707	1735	1764
35°	1690	1731	1771
40°	1671	1729	1793
45°	1643	1729	1834
50°	1607	1739	1889
55°	1566	1767	1973
60°	1500	1802	2083
65°	1404	1866	2210
70°	1277	1952	2378
75°	1083	2059	2484
80°	855	2073	2009
85°	630	1576	1765



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.8	3.0
10°-20°	353.4	8.6
20°-30°	540.4	13.1
30°-40°	660.7	16.0
40°-50°	704.1	17.1
50°-60°	673.3	16.4
60°-70°	570.3	13.9
70°-80°	383.3	9.3
80°-90°	108.1	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°	1016.6	24.7
0°-40°	1677.3	40.7
0°-60°	3054.7	74.2
0°-90°	4116.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4116.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1294	1294	1294	1294	1294	
5°	1294	1292	1286	1292	1292	123
15°	1250	1250	1248	1258	1256	352
25°	1160	1164	1172	1182	1184	535
35°	1029	1037	1054	1074	1078	645
45°	864	878	909	947	964	666
55°	668	692	753	813	841	595
65°	441	486	586	664	694	438
75°	208	284	396	464	478	223
85°	41	84	102	110	114	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1294.5	1294.5	1294.5	1294.5	1294.5
2.5°	1296.6	1296.6	1290.4	1294.5	1294.5
5°	1294.5	1292.5	1286.4	1292.5	1292.5
7.5°	1288.4	1286.4	1282.3	1288.4	1286.4
10°	1276.1	1276.1	1272.1	1278.2	1278.2
12.5°	1265.9	1263.9	1261.9	1270.0	1268.0
15°	1249.6	1249.6	1247.6	1257.8	1255.7
17.5°	1229.2	1231.2	1233.3	1241.4	1243.5
20°	1206.7	1210.8	1212.8	1225.1	1225.1
22.5°	1186.3	1188.3	1192.4	1204.7	1204.7
25°	1159.8	1163.8	1172.0	1182.2	1184.3
27.5°	1133.2	1135.3	1145.5	1159.8	1161.8
30°	1098.5	1104.6	1116.9	1133.2	1135.3
32.5°	1067.9	1074.0	1088.3	1104.6	1108.7
35°	1029.1	1037.3	1053.6	1074.0	1078.1
37.5°	994.4	1000.5	1020.9	1043.4	1049.5
40°	951.5	963.7	984.2	1010.7	1020.9
42.5°	908.6	920.9	945.4	980.1	992.3
45°	863.7	878.0	908.6	947.4	963.7
47.5°	818.8	835.1	869.8	914.7	933.1
50°	767.7	788.1	831.0	882.1	902.5
52.5°	718.7	743.2	790.2	847.4	873.9
55°	667.7	692.2	753.4	812.6	841.2
57.5°	610.5	643.2	710.6	777.9	808.6
60°	557.4	588.0	669.7	743.2	773.9
62.5°	500.2	541.1	628.9	706.5	737.1
65°	441.0	486.0	586.0	663.6	694.2
67.5°	387.9	437.0	543.1	620.7	651.3
70°	324.7	385.9	496.2	573.8	604.4
72.5°	265.4	332.8	447.2	522.7	551.3
75°	208.3	283.8	396.1	463.5	477.8
77.5°	155.2	234.8	343.0	371.6	361.4
80°	110.3	187.8	267.5	253.2	259.3
82.5°	71.5	142.9	165.4	187.8	194.0
85°	40.8	83.7	102.1	110.3	114.3
87.5°	18.4	30.6	40.8	40.8	38.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)