

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: P276213

Luminaire Tested: **24CZ2-50HE-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276213
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-5)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-50HE-UNV-L92765-W2A1-U-2700K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3725.3 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

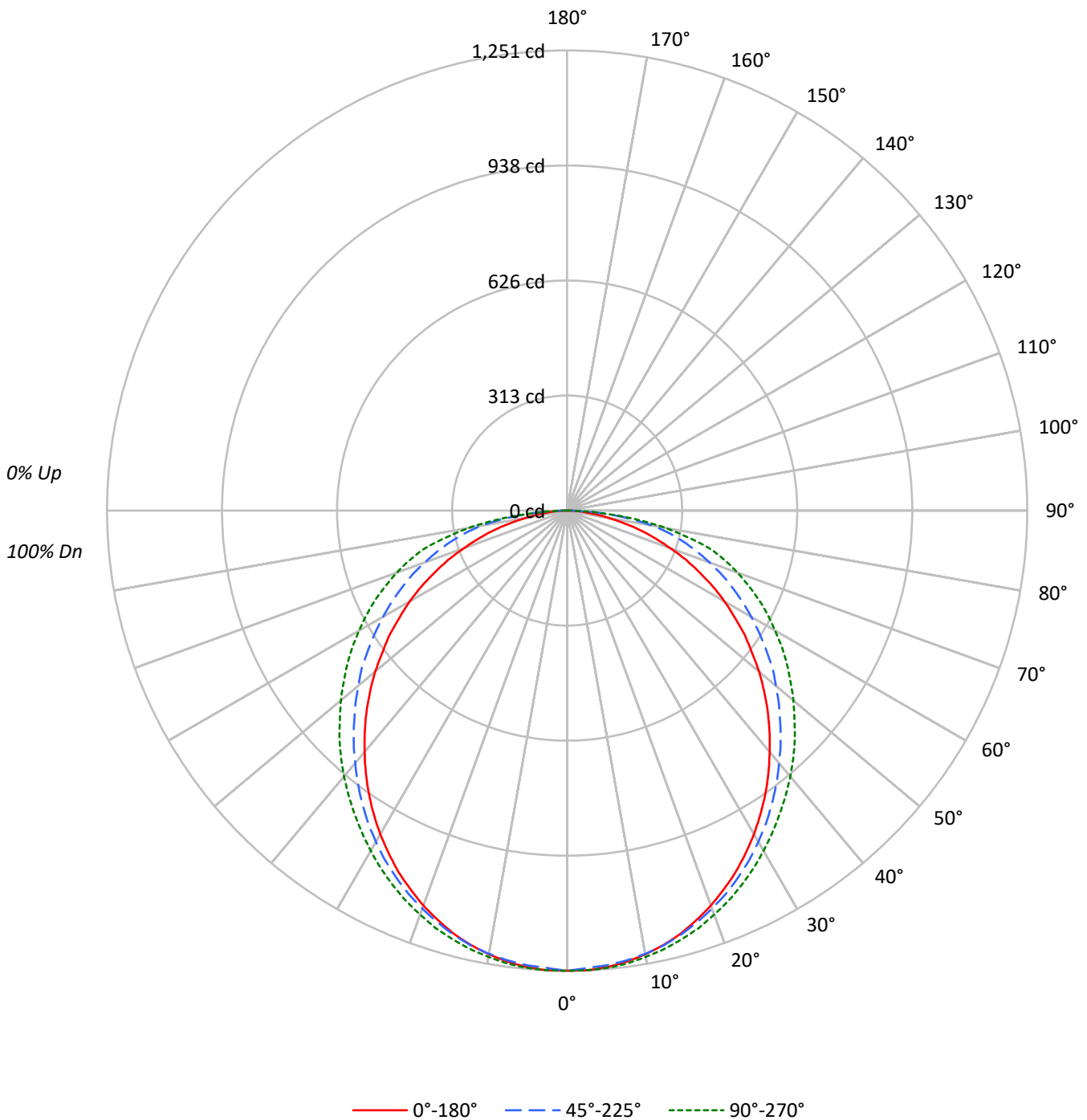
Input Watts (W): 35.619
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	108	103	98	94	105	100	96	92	96	93	89	92	89	87	89	86	84
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	58
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	50
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43
6	69	55	46	39	67	54	45	39	52	44	39	50	44	38	49	43	38
7	64	50	41	35	62	49	40	34	47	40	34	46	39	34	45	38	34
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1683	1683	1683
5°	1683	1676	1686
10°	1673	1671	1683
15°	1659	1663	1680
20°	1636	1648	1673
25°	1610	1633	1667
30°	1578	1615	1659
35°	1544	1595	1654
40°	1505	1574	1658
45°	1467	1559	1666
50°	1426	1551	1681
55°	1382	1549	1712
60°	1328	1556	1756
65°	1259	1579	1833
70°	1169	1619	1937
75°	1066	1700	2101
80°	876	1830	2100
85°	672	1689	1805



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.3	3.2
10°-20°	337.7	9.1
20°-30°	508.2	13.6
30°-40°	609.0	16.3
40°-50°	634.7	17.0
50°-60°	590.5	15.9
60°-70°	486.3	13.1
70°-80°	331.2	8.9
80°-90°	109.4	2.9
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°	964.2	25.9
0°-40°	1573.2	42.2
0°-60°	2798.4	75.1
0°-90°	3725.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3725.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1251	1251	1251	1251	1251	
5°	1246	1246	1241	1247	1248	118
15°	1191	1192	1194	1205	1206	336
25°	1084	1089	1100	1119	1123	499
35°	940	951	971	997	1007	588
45°	771	787	819	860	875	595
55°	589	609	660	712	730	525
65°	395	429	496	554	576	392
75°	205	251	327	385	404	216
85°	44	84	109	117	117	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1250.8	1250.8	1250.8	1250.8	1250.8
2.5°	1250.8	1250.8	1244.6	1250.8	1250.8
5°	1245.8	1245.8	1240.8	1247.0	1248.3
7.5°	1237.1	1238.3	1233.4	1240.8	1242.1
10°	1224.7	1225.9	1223.4	1230.9	1232.1
12.5°	1209.7	1211.0	1211.0	1219.7	1220.9
15°	1191.1	1192.3	1193.6	1204.8	1206.0
17.5°	1167.5	1171.2	1173.7	1187.4	1189.9
20°	1142.6	1146.3	1151.3	1166.2	1168.7
22.5°	1114.0	1119.0	1127.7	1143.8	1147.6
25°	1084.2	1089.1	1100.3	1119.0	1122.7
27.5°	1050.6	1058.1	1071.7	1091.6	1096.6
30°	1015.8	1023.2	1039.4	1060.5	1068.0
32.5°	978.5	988.4	1007.1	1030.7	1038.2
35°	939.9	951.1	971.0	997.1	1007.1
37.5°	898.9	911.3	935.0	963.6	976.0
40°	856.6	871.6	896.4	930.0	943.7
42.5°	814.4	828.0	859.1	895.2	910.1
45°	770.9	787.0	819.3	860.4	875.3
47.5°	726.1	742.3	780.8	824.3	838.0
50°	681.3	697.5	741.0	787.0	803.2
52.5°	632.8	654.0	703.7	749.7	765.9
55°	589.3	609.2	660.2	712.4	729.8
57.5°	539.6	563.2	619.2	673.9	692.5
60°	493.6	518.5	578.1	634.1	652.7
62.5°	446.3	473.7	537.1	594.3	615.4
65°	395.4	428.9	496.1	554.5	575.7
67.5°	349.4	384.2	455.1	514.7	533.4
70°	297.2	339.4	411.5	471.2	492.4
72.5°	252.4	294.7	370.5	428.9	450.1
75°	205.1	251.1	327.0	385.4	404.1
77.5°	157.9	208.9	284.7	329.5	335.7
80°	113.1	166.6	236.2	262.3	271.0
82.5°	79.6	128.1	174.1	191.5	196.4
85°	43.5	84.5	109.4	116.9	116.9
87.5°	18.6	36.1	43.5	44.8	46.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)