

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: P276368

Luminaire Tested: **24CZ2-35-S-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276368
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-1)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-35-S-UNV-L83050-W2A1-U-3500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3536.0 lumens
Efficiency: N/A
Efficacy: 135.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.27 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

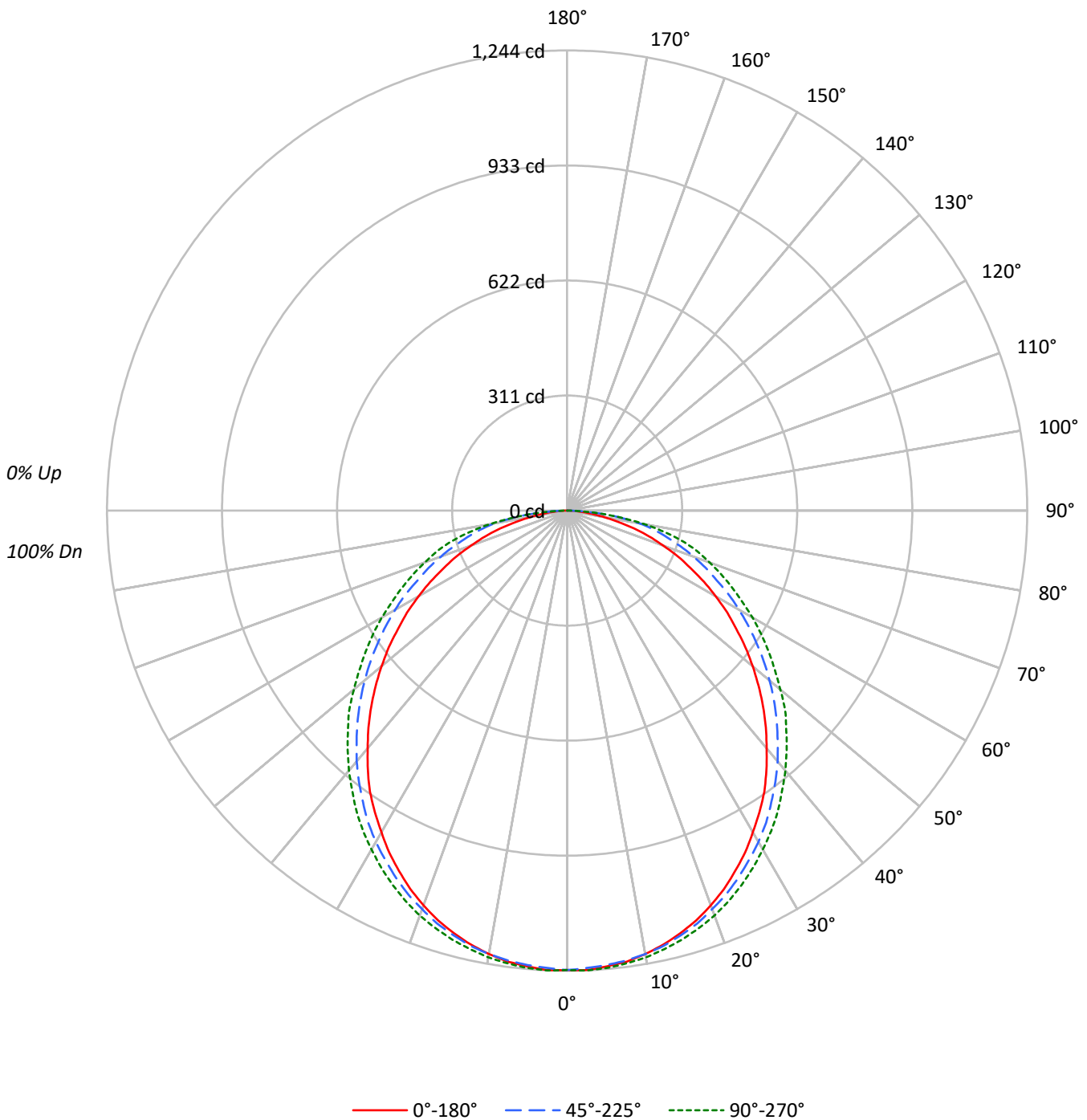
Input Watts (W): 26.04
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1671	1671	1671
5°	1670	1666	1676
10°	1663	1663	1676
15°	1647	1655	1673
20°	1626	1642	1668
25°	1596	1626	1657
30°	1560	1607	1644
35°	1526	1581	1631
40°	1474	1555	1612
45°	1426	1524	1594
50°	1371	1495	1575
55°	1309	1468	1560
60°	1248	1445	1556
65°	1169	1420	1566
70°	1083	1427	1608
75°	969	1454	1699
80°	783	1540	1662
85°	590	1352	1318



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.6	3.3
10°-20°	336.0	9.5
20°-30°	505.1	14.3
30°-40°	601.7	17.0
40°-50°	615.8	17.4
50°-60°	554.4	15.7
60°-70°	435.4	12.3
70°-80°	282.6	8.0
80°-90°	87.4	2.5
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°	958.8	27.1
0°-40°	1560.5	44.1
0°-60°	2730.7	77.2
0°-90°	3536.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3536.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1242	1242	1242	1242	1242	
5°	1237	1239	1233	1240	1241	117
15°	1183	1186	1188	1198	1201	333
25°	1075	1084	1095	1113	1116	495
35°	929	940	963	986	993	579
45°	749	767	801	831	838	578
55°	558	583	626	658	665	500
65°	367	395	446	483	492	366
75°	186	222	280	318	327	197
85°	38	71	88	85	85	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1242.2	1242.2	1242.2	1242.2	1242.2
2.5°	1243.3	1243.3	1237.7	1243.3	1244.5
5°	1236.6	1238.9	1233.2	1240.0	1241.1
7.5°	1229.9	1229.9	1226.5	1233.2	1234.4
10°	1217.5	1218.6	1217.5	1225.4	1226.5
12.5°	1201.8	1204.0	1205.2	1213.0	1214.1
15°	1182.7	1186.1	1188.3	1198.4	1200.7
17.5°	1161.4	1164.7	1170.3	1181.6	1183.8
20°	1135.5	1140.0	1146.8	1161.4	1164.7
22.5°	1107.4	1111.9	1123.2	1136.6	1142.3
25°	1074.9	1083.9	1095.1	1113.1	1116.4
27.5°	1042.3	1050.2	1064.8	1083.9	1088.3
30°	1004.1	1016.5	1034.4	1053.5	1058.0
32.5°	967.0	979.4	1000.7	1021.0	1026.6
35°	928.9	940.1	962.6	986.1	992.9
37.5°	885.1	899.7	924.4	948.0	954.7
40°	839.0	857.0	885.1	909.8	917.6
42.5°	795.2	814.3	842.4	869.3	878.3
45°	749.2	767.1	800.8	831.1	837.9
47.5°	702.0	722.2	758.1	788.5	799.7
50°	654.8	676.1	714.3	745.8	752.5
52.5°	607.6	630.1	670.5	704.2	707.6
55°	558.2	582.9	625.6	658.2	664.9
57.5°	513.3	534.6	580.7	614.4	622.2
60°	463.9	487.5	536.9	568.3	578.4
62.5°	416.7	441.4	493.1	524.5	533.5
65°	367.3	395.4	445.9	483.0	491.9
67.5°	324.6	351.6	405.5	441.4	450.4
70°	275.2	305.5	362.8	399.8	408.8
72.5°	232.5	263.9	321.2	357.2	370.6
75°	186.4	222.4	279.7	317.9	326.8
77.5°	141.5	183.1	241.5	270.7	270.7
80°	101.1	144.9	198.8	212.3	214.5
82.5°	66.3	108.9	147.1	146.0	146.0
85°	38.2	70.8	87.6	85.4	85.4
87.5°	14.6	29.2	31.4	31.4	30.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)