

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: P276142

Luminaire Tested: **24CZ2-35-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276142
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: 24CZ2-35-UNV-L82765-W2A1-U-3000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3176.7 lumens
Efficiency: N/A
Efficacy: 122.9 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

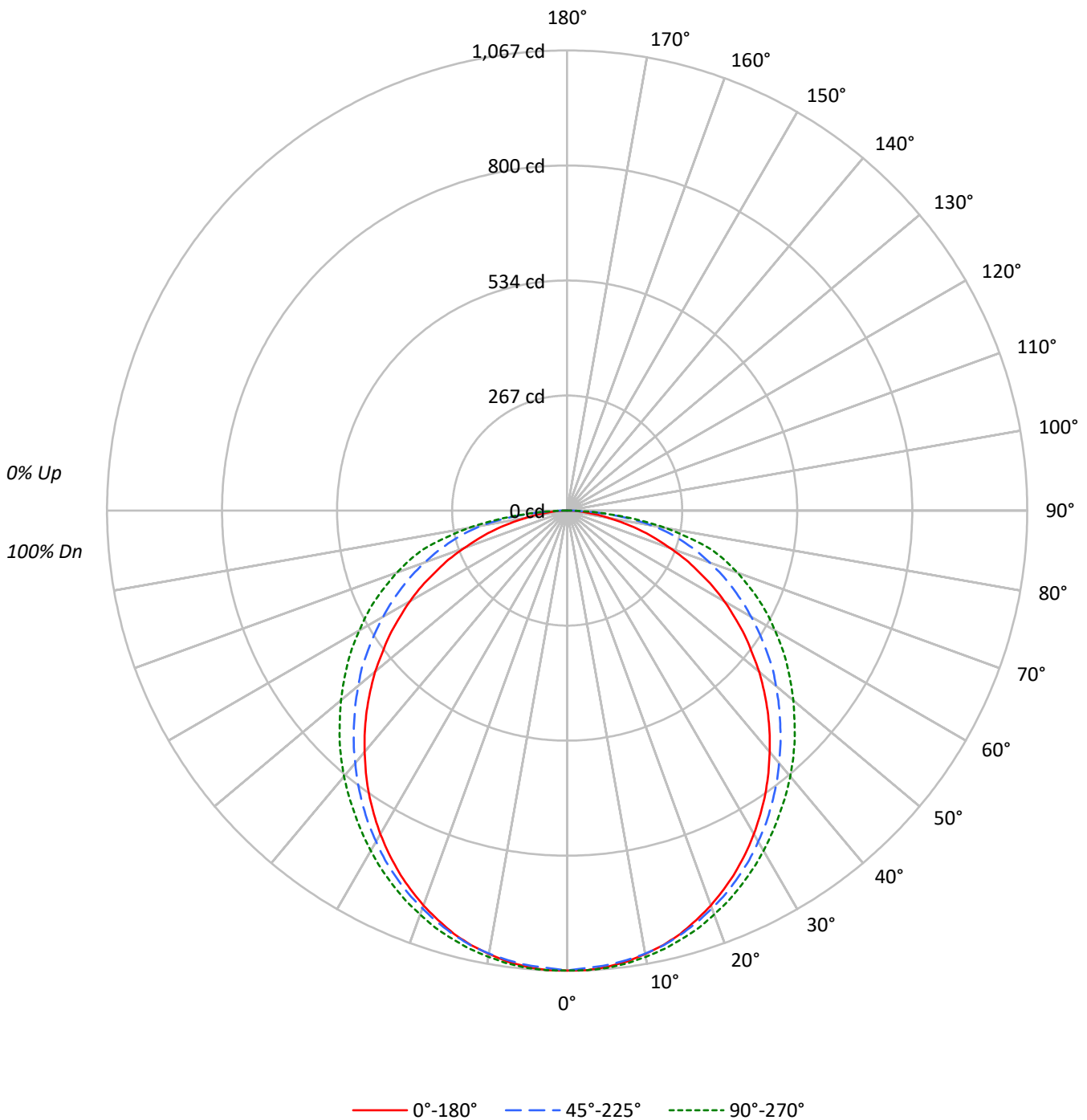
Input Watts (W): 25.854
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	89	86	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	61	70	64	60	68	63	58	56
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	50	48
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	39	50	44	38	49	43	38	36
7	64	50	41	35	62	49	40	34	47	40	34	46	39	34	45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1435	1435	1435
5°	1435	1429	1438
10°	1427	1425	1436
15°	1415	1418	1433
20°	1395	1406	1427
25°	1372	1393	1421
30°	1346	1377	1415
35°	1316	1360	1411
40°	1283	1343	1413
45°	1251	1329	1420
50°	1216	1323	1434
55°	1179	1321	1460
60°	1133	1327	1498
65°	1073	1347	1563
70°	997	1380	1651
75°	909	1449	1791
80°	748	1561	1791
85°	573	1440	1539



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.9	3.2
10°-20°	288.0	9.1
20°-30°	433.4	13.6
30°-40°	519.3	16.3
40°-50°	541.2	17.0
50°-60°	503.5	15.9
60°-70°	414.7	13.1
70°-80°	282.4	8.9
80°-90°	93.3	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°	822.2	25.9
0°-40°	1341.6	42.2
0°-60°	2386.3	75.1
0°-90°	3176.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3176.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1067	1067	1067	1067	1067	
5°	1062	1062	1058	1063	1064	101
15°	1016	1017	1018	1027	1028	286
25°	924	929	938	954	957	426
35°	802	811	828	850	859	501
45°	657	671	699	734	746	507
55°	502	520	563	608	622	448
65°	337	366	423	473	491	335
75°	175	214	279	329	345	184
85°	37	72	93	100	100	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1066.6	1066.6	1066.6	1066.6	1066.6
2.5°	1066.6	1066.6	1061.3	1066.6	1066.6
5°	1062.3	1062.3	1058.1	1063.4	1064.4
7.5°	1054.9	1056.0	1051.7	1058.1	1059.1
10°	1044.3	1045.4	1043.2	1049.6	1050.7
12.5°	1031.6	1032.6	1032.6	1040.1	1041.1
15°	1015.7	1016.7	1017.8	1027.3	1028.4
17.5°	995.5	998.7	1000.8	1012.5	1014.6
20°	974.3	977.5	981.7	994.5	996.6
22.5°	949.9	954.2	961.6	975.4	978.6
25°	924.5	928.7	938.3	954.2	957.4
27.5°	895.9	902.2	913.9	930.9	935.1
30°	866.2	872.5	886.3	904.3	910.7
32.5°	834.4	842.9	858.8	878.9	885.3
35°	801.5	811.0	828.0	850.3	858.8
37.5°	766.5	777.1	797.3	821.7	832.3
40°	730.5	743.2	764.4	793.0	804.7
42.5°	694.4	706.1	732.6	763.3	776.1
45°	657.3	671.1	698.7	733.7	746.4
47.5°	619.2	632.9	665.8	702.9	714.6
50°	581.0	594.8	631.9	671.1	684.9
52.5°	539.6	557.7	600.1	639.3	653.1
55°	502.5	519.5	563.0	607.5	622.3
57.5°	460.1	480.3	528.0	574.6	590.5
60°	420.9	442.1	493.0	540.7	556.6
62.5°	380.6	403.9	458.0	506.8	524.8
65°	337.1	365.8	423.0	472.8	490.9
67.5°	297.9	327.6	388.0	438.9	454.8
70°	253.4	289.4	350.9	401.8	419.8
72.5°	215.2	251.3	315.9	365.8	383.8
75°	174.9	214.2	278.8	328.7	344.6
77.5°	134.6	178.1	242.8	281.0	286.3
80°	96.5	142.1	201.4	223.7	231.1
82.5°	67.9	109.2	148.4	163.3	167.5
85°	37.1	72.1	93.3	99.7	99.7
87.5°	15.9	30.7	37.1	38.2	39.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)