

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: P275950

Luminaire Tested: **24CZ2-35-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275950
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-L83050-W2A1-U-4500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3567.0 lumens
Efficiency: N/A
Efficacy: 130.5 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

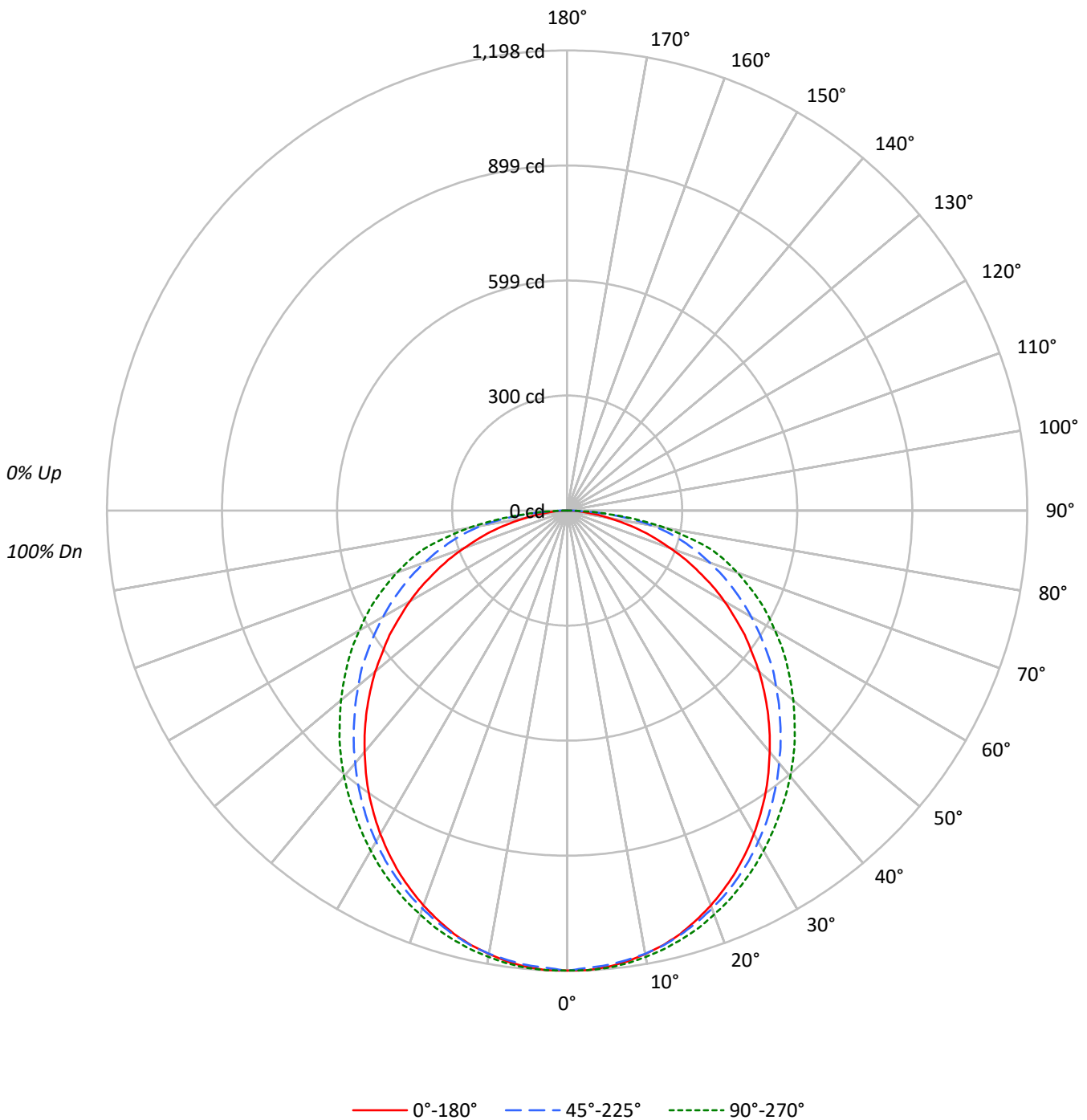
Input Watts (W): 27.342
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1611	1611	1611
5°	1611	1605	1614
10°	1602	1600	1612
15°	1589	1592	1609
20°	1566	1578	1602
25°	1541	1564	1596
30°	1511	1546	1589
35°	1478	1527	1584
40°	1441	1508	1587
45°	1404	1493	1595
50°	1366	1485	1610
55°	1324	1483	1639
60°	1272	1490	1682
65°	1205	1512	1755
70°	1119	1550	1854
75°	1021	1628	2011
80°	839	1753	2011
85°	644	1618	1727



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.3	3.2
10°-20°	323.4	9.1
20°-30°	486.6	13.6
30°-40°	583.2	16.3
40°-50°	607.7	17.0
50°-60°	565.4	15.9
60°-70°	465.7	13.1
70°-80°	317.1	8.9
80°-90°	104.7	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°	923.2	25.9
0°-40°	1506.4	42.2
0°-60°	2679.5	75.1
0°-90°	3567.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3567.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1198	1198	1198	1198	1198	
5°	1193	1193	1188	1194	1195	113
15°	1140	1142	1143	1154	1155	321
25°	1038	1043	1054	1071	1075	478
35°	900	911	930	955	964	563
45°	738	754	784	824	838	569
55°	564	583	632	682	699	503
65°	379	411	475	531	551	376
75°	196	240	313	369	387	207
85°	42	81	105	112	112	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1197.6	1197.6	1197.6	1197.6	1197.6
2.5°	1197.6	1197.6	1191.7	1197.6	1197.6
5°	1192.8	1192.8	1188.1	1194.0	1195.2
7.5°	1184.5	1185.7	1180.9	1188.1	1189.3
10°	1172.6	1173.8	1171.4	1178.6	1179.8
12.5°	1158.3	1159.5	1159.5	1167.8	1169.0
15°	1140.5	1141.7	1142.8	1153.6	1154.8
17.5°	1117.8	1121.4	1123.8	1136.9	1139.3
20°	1094.0	1097.6	1102.4	1116.7	1119.0
22.5°	1066.7	1071.4	1079.8	1095.2	1098.8
25°	1038.1	1042.8	1053.6	1071.4	1075.0
27.5°	1005.9	1013.1	1026.2	1045.2	1050.0
30°	972.6	979.8	995.2	1015.5	1022.6
32.5°	936.9	946.4	964.3	986.9	994.0
35°	900.0	910.7	929.8	954.8	964.3
37.5°	860.7	872.6	895.2	922.6	934.5
40°	820.2	834.5	858.3	890.5	903.6
42.5°	779.8	792.8	822.6	857.1	871.4
45°	738.1	753.6	784.5	823.8	838.1
47.5°	695.2	710.7	747.6	789.3	802.4
50°	652.4	667.9	709.5	753.6	769.0
52.5°	605.9	626.2	673.8	717.9	733.3
55°	564.3	583.3	632.1	682.1	698.8
57.5°	516.7	539.3	592.9	645.2	663.1
60°	472.6	496.4	553.6	607.1	625.0
62.5°	427.4	453.6	514.3	569.0	589.3
65°	378.6	410.7	475.0	530.9	551.2
67.5°	334.5	367.9	435.7	492.9	510.7
70°	284.5	325.0	394.0	451.2	471.4
72.5°	241.7	282.1	354.8	410.7	430.9
75°	196.4	240.5	313.1	369.0	386.9
77.5°	151.2	200.0	272.6	315.5	321.4
80°	108.3	159.5	226.2	251.2	259.5
82.5°	76.2	122.6	166.7	183.3	188.1
85°	41.7	81.0	104.8	111.9	111.9
87.5°	17.9	34.5	41.7	42.9	44.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)