

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: P275582

Luminaire Tested: **14CZ2-44-S-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275582
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-40)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-44-S-UNV-L83050-W2A1-U-3500K
Description: CRUZE 2.0 1x4 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: 4345.0 lumens
Efficiency: N/A
Efficacy: 122.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

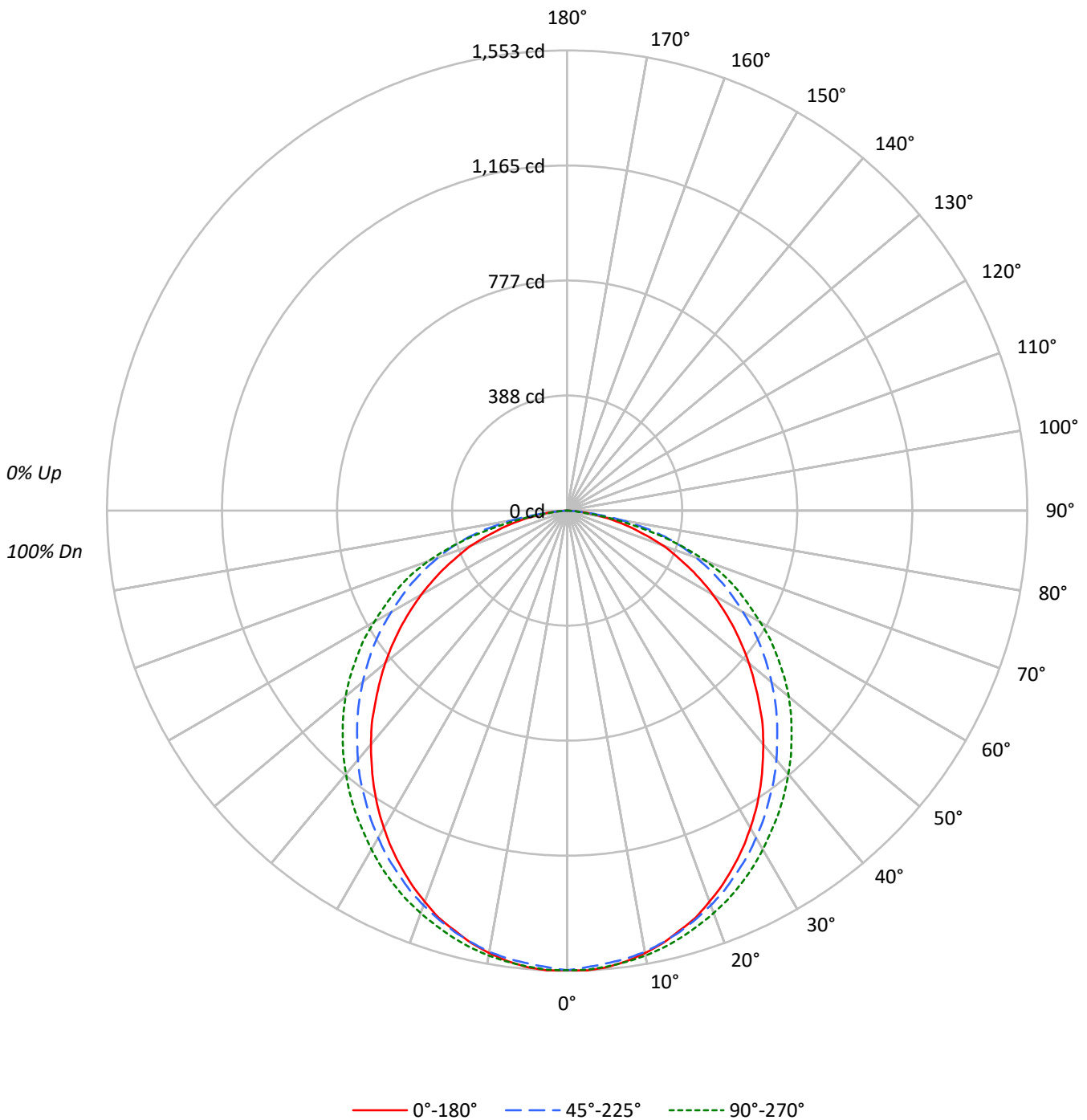
Input Watts (W): 35.619
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	109	104	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86	84
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4174	4174	4174
5°	4178	4143	4172
10°	4144	4132	4168
15°	4087	4099	4153
20°	4022	4059	4139
25°	3940	4010	4126
30°	3842	3963	4103
35°	3737	3907	4091
40°	3618	3860	4079
45°	3484	3812	4075
50°	3355	3770	4086
55°	3214	3740	4073
60°	3061	3687	4046
65°	2881	3677	4046
70°	2712	3644	3932
75°	2352	3561	3359
80°	1903	2872	2236
85°	1263	997	664



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.5	3.4
10°-20°	416.8	9.6
20°-30°	625.2	14.4
30°-40°	745.8	17.2
40°-50°	771.0	17.7
50°-60°	703.9	16.2
60°-70°	554.0	12.7
70°-80°	322.5	7.4
80°-90°	59.4	1.4
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°	1188.4	27.4
0°-40°	1934.2	44.5
0°-60°	3409.2	78.5
0°-90°	4345.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4345.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1551	1551	1551	1551	1551	
5°	1547	1542	1534	1547	1545	147
15°	1467	1469	1471	1491	1491	414
25°	1327	1334	1351	1383	1390	611
35°	1138	1152	1189	1234	1245	711
45°	916	946	1002	1058	1071	707
55°	685	722	797	855	868	613
65°	452	500	577	623	636	449
75°	226	280	342	336	323	240
85°	41	58	32	26	22	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1551.1	1551.1	1551.1	1551.1	1551.1
2.5°	1553.2	1548.9	1542.5	1553.2	1551.1
5°	1546.8	1542.5	1533.9	1546.8	1544.6
7.5°	1533.9	1529.5	1525.2	1538.2	1536.0
10°	1516.6	1514.5	1512.3	1527.4	1525.2
12.5°	1495.1	1495.1	1492.9	1510.2	1510.2
15°	1467.1	1469.2	1471.4	1490.8	1490.8
17.5°	1441.2	1439.1	1445.5	1467.1	1469.2
20°	1404.6	1408.9	1417.5	1443.4	1445.5
22.5°	1368.0	1372.3	1387.4	1413.2	1419.7
25°	1327.0	1333.5	1350.7	1383.1	1389.5
27.5°	1284.0	1292.6	1316.3	1350.7	1357.2
30°	1236.6	1249.5	1275.3	1314.1	1320.6
32.5°	1189.2	1202.1	1234.4	1273.2	1281.8
35°	1137.5	1152.5	1189.2	1234.4	1245.2
37.5°	1083.6	1103.0	1146.1	1191.3	1204.3
40°	1029.8	1051.3	1098.7	1146.1	1161.2
42.5°	975.9	997.4	1049.1	1103.0	1118.1
45°	915.6	945.7	1001.7	1057.8	1070.7
47.5°	857.4	889.7	952.2	1008.2	1025.4
50°	801.4	833.7	900.5	958.7	975.9
52.5°	743.2	777.7	848.8	909.1	924.2
55°	685.1	721.7	797.1	855.3	868.2
57.5°	626.9	665.7	743.2	799.2	814.3
60°	568.7	609.7	685.1	741.1	751.8
62.5°	510.6	553.7	631.2	680.8	691.5
65°	452.4	499.8	577.4	622.6	635.5
67.5°	396.4	443.8	519.2	562.3	573.0
70°	344.7	387.8	463.2	495.5	499.8
72.5°	280.1	333.9	407.2	424.4	413.6
75°	226.2	280.1	342.5	336.1	323.1
77.5°	172.3	226.2	267.1	245.6	228.4
80°	122.8	176.7	185.3	153.0	144.3
82.5°	79.7	122.8	103.4	79.7	64.6
85°	40.9	58.2	32.3	25.9	21.5
87.5°	12.9	8.6	4.3	4.3	2.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)