

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: P275578

Luminaire Tested: **14CZ2-39-S-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275578
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: 14CZ2-39-S-UNV-L83050-W2A1-U-4000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4081.0 lumens
Efficiency: N/A
Efficacy: 128.7 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

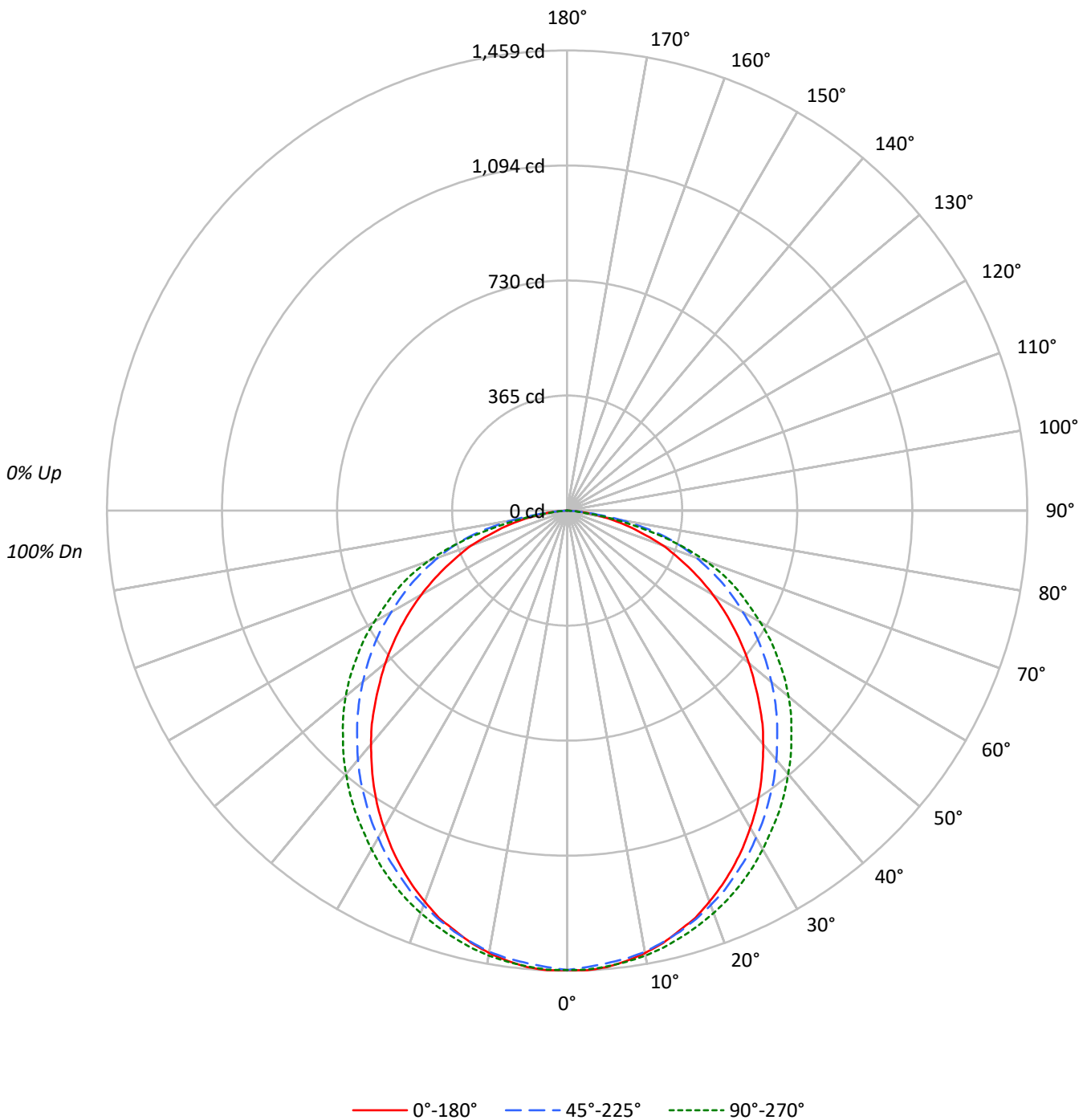
Input Watts (W): 31.713
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3920	3920	3920
5°	3924	3892	3919
10°	3892	3881	3915
15°	3839	3850	3901
20°	3778	3813	3888
25°	3701	3767	3875
30°	3609	3722	3854
35°	3510	3669	3842
40°	3398	3625	3831
45°	3272	3581	3827
50°	3151	3541	3837
55°	3019	3513	3826
60°	2875	3463	3801
65°	2706	3453	3801
70°	2547	3423	3693
75°	2209	3345	3156
80°	1787	2696	2101
85°	1186	939	624



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.6	3.4
10°-20°	391.5	9.6
20°-30°	587.2	14.4
30°-40°	700.5	17.2
40°-50°	724.2	17.7
50°-60°	661.1	16.2
60°-70°	520.3	12.7
70°-80°	302.9	7.4
80°-90°	55.8	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°	1116.2	27.4
0°-40°	1816.7	44.5
0°-60°	3202.0	78.5
0°-90°	4081.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4081.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1457	1457	1457	1457	1457	
5°	1453	1449	1441	1453	1451	138
15°	1378	1380	1382	1400	1400	389
25°	1246	1252	1269	1299	1305	574
35°	1068	1082	1117	1159	1170	668
45°	860	888	941	994	1006	664
55°	643	678	749	803	815	575
65°	425	469	542	585	597	422
75°	212	263	322	316	304	226
85°	38	55	30	24	20	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1456.8	1456.8	1456.8	1456.8	1456.8
2.5°	1458.9	1454.8	1448.8	1458.9	1456.8
5°	1452.8	1448.8	1440.7	1452.8	1450.8
7.5°	1440.7	1436.6	1432.6	1444.7	1442.7
10°	1424.5	1422.5	1420.4	1434.6	1432.6
12.5°	1404.2	1404.2	1402.2	1418.4	1418.4
15°	1377.9	1380.0	1382.0	1400.2	1400.2
17.5°	1353.7	1351.6	1357.7	1377.9	1380.0
20°	1319.3	1323.3	1331.4	1355.7	1357.7
22.5°	1284.9	1288.9	1303.1	1327.4	1333.4
25°	1246.4	1252.5	1268.7	1299.0	1305.1
27.5°	1205.9	1214.0	1236.3	1268.7	1274.7
30°	1161.4	1173.6	1197.9	1234.3	1240.3
32.5°	1116.9	1129.1	1159.4	1195.8	1203.9
35°	1068.4	1082.5	1116.9	1159.4	1169.5
37.5°	1017.8	1036.0	1076.4	1118.9	1131.1
40°	967.2	987.4	1031.9	1076.4	1090.6
42.5°	916.6	936.8	985.4	1036.0	1050.1
45°	859.9	888.3	940.9	993.5	1005.6
47.5°	805.3	835.7	894.3	947.0	963.1
50°	752.7	783.1	845.8	900.4	916.6
52.5°	698.1	730.4	797.2	853.9	868.0
55°	643.4	677.8	748.7	803.3	815.4
57.5°	588.8	625.2	698.1	750.7	764.8
60°	534.2	572.6	643.4	696.1	706.2
62.5°	479.5	520.0	592.9	639.4	649.5
65°	424.9	469.4	542.3	584.8	596.9
67.5°	372.3	416.8	487.6	528.1	538.2
70°	323.7	364.2	435.0	465.4	469.4
72.5°	263.0	313.6	382.4	398.6	388.5
75°	212.5	263.0	321.7	315.7	303.5
77.5°	161.9	212.5	250.9	230.7	214.5
80°	115.3	165.9	174.0	143.7	135.6
82.5°	74.9	115.3	97.1	74.9	60.7
85°	38.4	54.6	30.4	24.3	20.2
87.5°	12.1	8.1	4.0	4.0	2.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)