

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: P275579

Luminaire Tested: **14CZ2-39-S-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275579
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-4500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4120.0 lumens
Efficiency: N/A
Efficacy: 126.9 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

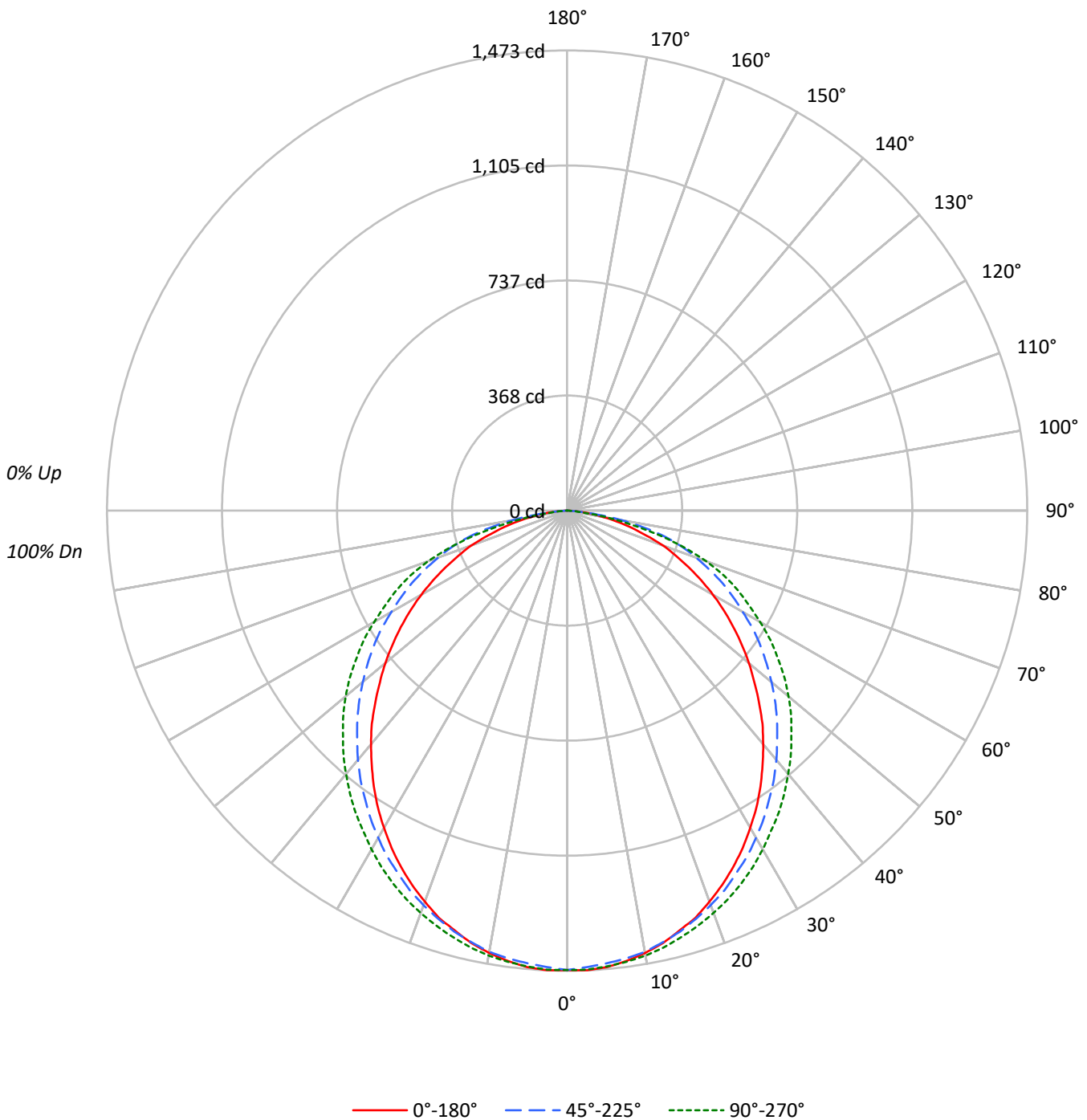
Input Watts (W): 32.457
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	104	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86	84					84			
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70					70			
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58					58			
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50					50			
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43					43			
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38					38			
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33					33			
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30					30			
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27					27			
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3958	3958	3958
5°	3962	3929	3956
10°	3930	3918	3952
15°	3875	3887	3938
20°	3814	3849	3925
25°	3736	3803	3912
30°	3643	3758	3891
35°	3543	3704	3879
40°	3430	3660	3868
45°	3304	3615	3863
50°	3181	3575	3874
55°	3048	3546	3862
60°	2902	3496	3837
65°	2732	3486	3837
70°	2571	3456	3729
75°	2230	3377	3186
80°	1804	2723	2122
85°	1198	945	630



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.9	3.4
10°-20°	395.2	9.6
20°-30°	592.8	14.4
30°-40°	707.2	17.2
40°-50°	731.1	17.7
50°-60°	667.5	16.2
60°-70°	525.3	12.7
70°-80°	305.8	7.4
80°-90°	56.3	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°	1126.9	27.4
0°-40°	1834.1	44.5
0°-60°	3232.6	78.5
0°-90°	4120.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4120.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1471	1471	1471	1471	1471	
5°	1467	1463	1454	1467	1465	139
15°	1391	1393	1395	1414	1414	393
25°	1258	1264	1281	1311	1318	579
35°	1079	1093	1128	1170	1181	674
45°	868	897	950	1003	1015	670
55°	650	684	756	811	823	581
65°	429	474	548	590	603	426
75°	214	266	325	319	306	228
85°	39	55	31	24	20	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1470.8	1470.8	1470.8	1470.8	1470.8
2.5°	1472.8	1468.7	1462.6	1472.8	1470.8
5°	1466.7	1462.6	1454.4	1466.7	1464.6
7.5°	1454.4	1450.3	1446.3	1458.5	1456.5
10°	1438.1	1436.0	1434.0	1448.3	1446.3
12.5°	1417.7	1417.7	1415.6	1432.0	1432.0
15°	1391.1	1393.1	1395.2	1413.6	1413.6
17.5°	1366.6	1364.5	1370.7	1391.1	1393.1
20°	1331.9	1336.0	1344.1	1368.6	1370.7
22.5°	1297.1	1301.2	1315.5	1340.0	1346.2
25°	1258.3	1264.5	1280.8	1311.4	1317.6
27.5°	1217.5	1225.6	1248.1	1280.8	1286.9
30°	1172.5	1184.8	1209.3	1246.1	1252.2
32.5°	1127.6	1139.8	1170.5	1207.3	1215.4
35°	1078.6	1092.9	1127.6	1170.5	1180.7
37.5°	1027.5	1045.9	1086.7	1129.6	1141.9
40°	976.4	996.9	1041.8	1086.7	1101.0
42.5°	925.4	945.8	994.8	1045.9	1060.2
45°	868.2	896.8	949.9	1003.0	1015.2
47.5°	813.0	843.7	902.9	956.0	972.3
50°	759.9	790.5	853.9	909.0	925.4
52.5°	704.7	737.4	804.8	862.0	876.3
55°	649.6	684.3	755.8	811.0	823.2
57.5°	594.4	631.2	704.7	757.9	772.2
60°	539.3	578.1	649.6	702.7	712.9
62.5°	484.1	525.0	598.5	645.5	655.7
65°	429.0	473.9	547.5	590.4	602.6
67.5°	375.9	420.8	492.3	533.2	543.4
70°	326.8	367.7	439.2	469.8	473.9
72.5°	265.6	316.6	386.1	402.4	392.2
75°	214.5	265.6	324.8	318.7	306.4
77.5°	163.4	214.5	253.3	232.9	216.5
80°	116.4	167.5	175.7	145.0	136.9
82.5°	75.6	116.4	98.1	75.6	61.3
85°	38.8	55.2	30.6	24.5	20.4
87.5°	12.3	8.2	4.1	4.1	2.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)