

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: P275660

Luminaire Tested: **14CZ2-39-S-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275660
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-L82765-W2A1-U-6500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4063.0 lumens
Efficiency: N/A
Efficacy: 125.5 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

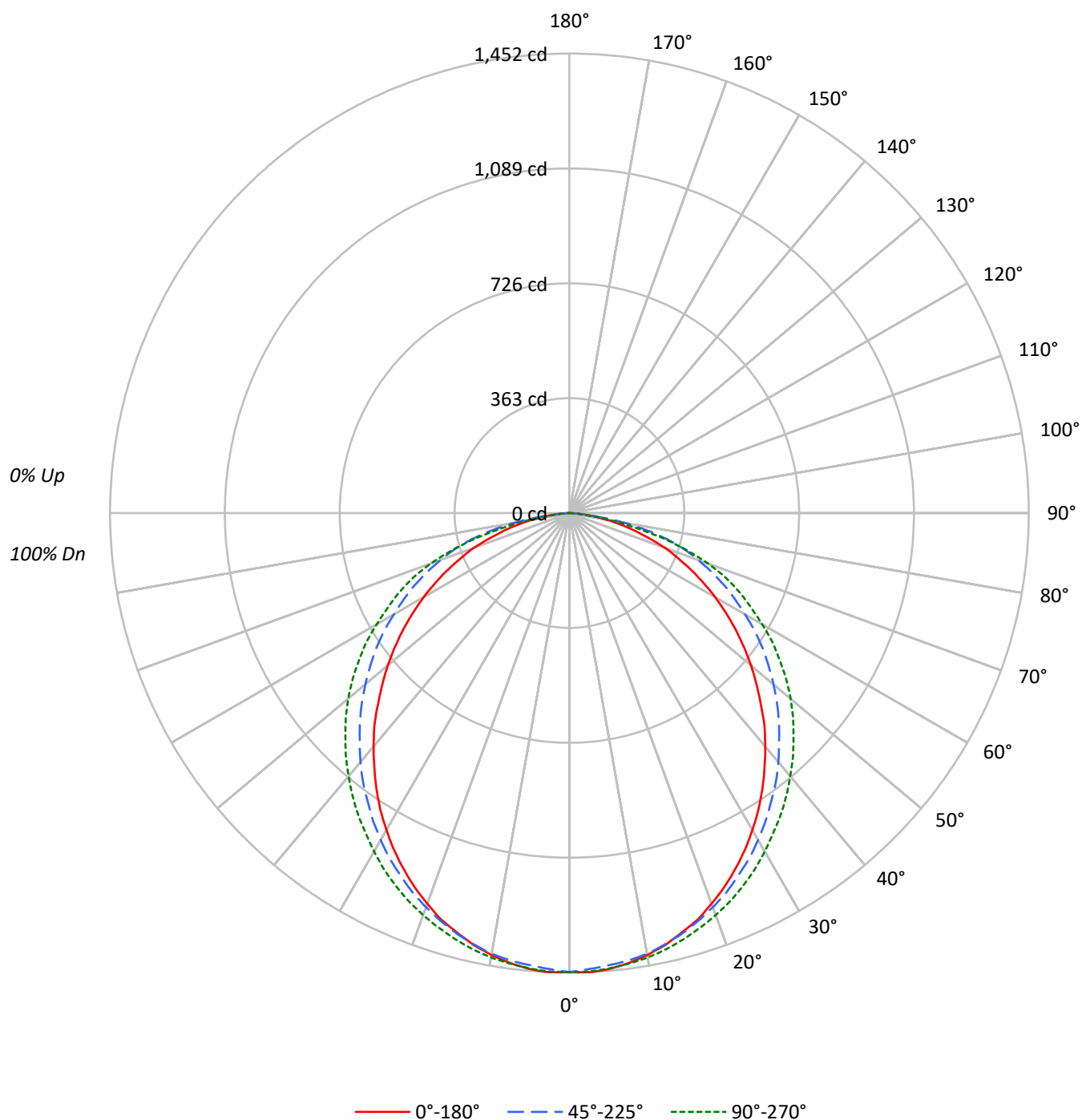
Input Watts (W): 32.364
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	109	104	100	96	106	102	98	94		97	94	91		94	91	89		90	88	86
2	99	90	84	78	96	89	82	77		85	80	75		82	77	73		79	75	72
3	90	79	71	65	87	78	70	64		75	68	63		72	66	62		69	65	61
4	82	70	61	55	80	69	61	54		66	59	53		64	58	53		62	56	52
5	76	63	54	47	74	62	53	47		59	52	46		57	51	46		56	50	45
6	70	56	47	41	68	55	47	41		54	46	40		52	45	40		50	44	40
7	65	51	42	36	63	50	42	36		49	41	36		47	41	35		46	40	35
8	60	47	38	32	59	46	38	32		45	37	32		43	37	32		42	36	32
9	56	43	35	29	55	42	34	29		41	34	29		40	33	29		39	33	28
10	53	40	32	26	52	39	31	26		38	31	26		37	31	26		36	30	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3903	3903	3903
5°	3907	3874	3902
10°	3875	3864	3897
15°	3822	3833	3884
20°	3761	3796	3871
25°	3684	3750	3858
30°	3593	3706	3837
35°	3494	3653	3825
40°	3382	3609	3814
45°	3258	3565	3810
50°	3137	3525	3821
55°	3005	3497	3809
60°	2862	3448	3784
65°	2693	3438	3784
70°	2536	3408	3677
75°	2199	3330	3142
80°	1779	2684	2092
85°	1183	932	621



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.0	3.4
10°-20°	389.7	9.6
20°-30°	584.6	14.4
30°-40°	697.4	17.2
40°-50°	721.0	17.7
50°-60°	658.2	16.2
60°-70°	518.0	12.7
70°-80°	301.5	7.4
80°-90°	55.5	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°	1111.3	27.4
0°-40°	1808.7	44.5
0°-60°	3187.9	78.5
0°-90°	4063.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4063.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1450	1450	1450	1450	1450	
5°	1446	1442	1434	1446	1444	137
15°	1372	1374	1376	1394	1394	387
25°	1241	1247	1263	1293	1299	571
35°	1064	1078	1112	1154	1164	665
45°	856	884	937	989	1001	661
55°	641	675	745	800	812	573
65°	423	467	540	582	594	420
75°	212	262	320	314	302	225
85°	38	54	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°	1450.4	1450.4	1450.4	1450.4	1450.4
2.5°	1452.4	1448.4	1442.4	1452.4	1450.4
5°	1446.4	1442.4	1434.3	1446.4	1444.4
7.5°	1434.3	1430.3	1426.2	1438.3	1436.3
10°	1418.2	1416.2	1414.2	1428.3	1426.2
12.5°	1398.0	1398.0	1396.0	1412.1	1412.1
15°	1371.9	1373.9	1375.9	1394.0	1394.0
17.5°	1347.7	1345.7	1351.7	1371.9	1373.9
20°	1313.4	1317.5	1325.5	1349.7	1351.7
22.5°	1279.2	1283.2	1297.3	1321.5	1327.5
25°	1240.9	1247.0	1263.1	1293.3	1299.3
27.5°	1200.6	1208.7	1230.8	1263.1	1269.1
30°	1156.3	1168.4	1192.6	1228.8	1234.9
32.5°	1112.0	1124.1	1154.3	1190.6	1198.6
35°	1063.6	1077.7	1112.0	1154.3	1164.4
37.5°	1013.3	1031.4	1071.7	1114.0	1126.1
40°	962.9	983.1	1027.4	1071.7	1085.8
42.5°	912.6	932.7	981.1	1031.4	1045.5
45°	856.2	884.4	936.7	989.1	1001.2
47.5°	801.8	832.0	890.4	942.8	958.9
50°	749.4	779.6	842.1	896.4	912.6
52.5°	695.0	727.2	793.7	850.1	864.2
55°	640.6	674.8	745.4	799.7	811.8
57.5°	586.2	622.5	695.0	747.4	761.5
60°	531.8	570.1	640.6	693.0	703.1
62.5°	477.4	517.7	590.2	636.6	646.6
65°	423.0	467.4	539.9	582.2	594.3
67.5°	370.7	415.0	485.5	525.8	535.9
70°	322.3	362.6	433.1	463.3	467.4
72.5°	261.9	312.2	380.7	396.9	386.8
75°	211.5	261.9	320.3	314.3	302.2
77.5°	161.2	211.5	249.8	229.7	213.5
80°	114.8	165.2	173.2	143.0	135.0
82.5°	74.5	114.8	96.7	74.5	60.4
85°	38.3	54.4	30.2	24.2	20.1
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)