

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: P259362

Luminaire Tested: **22CZ-LD5-39-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259362
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25706)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-39-UNV-L92765-W2A1-U-4500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3568.0 lumens
Efficiency: N/A
Efficacy: 116.3 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.26 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

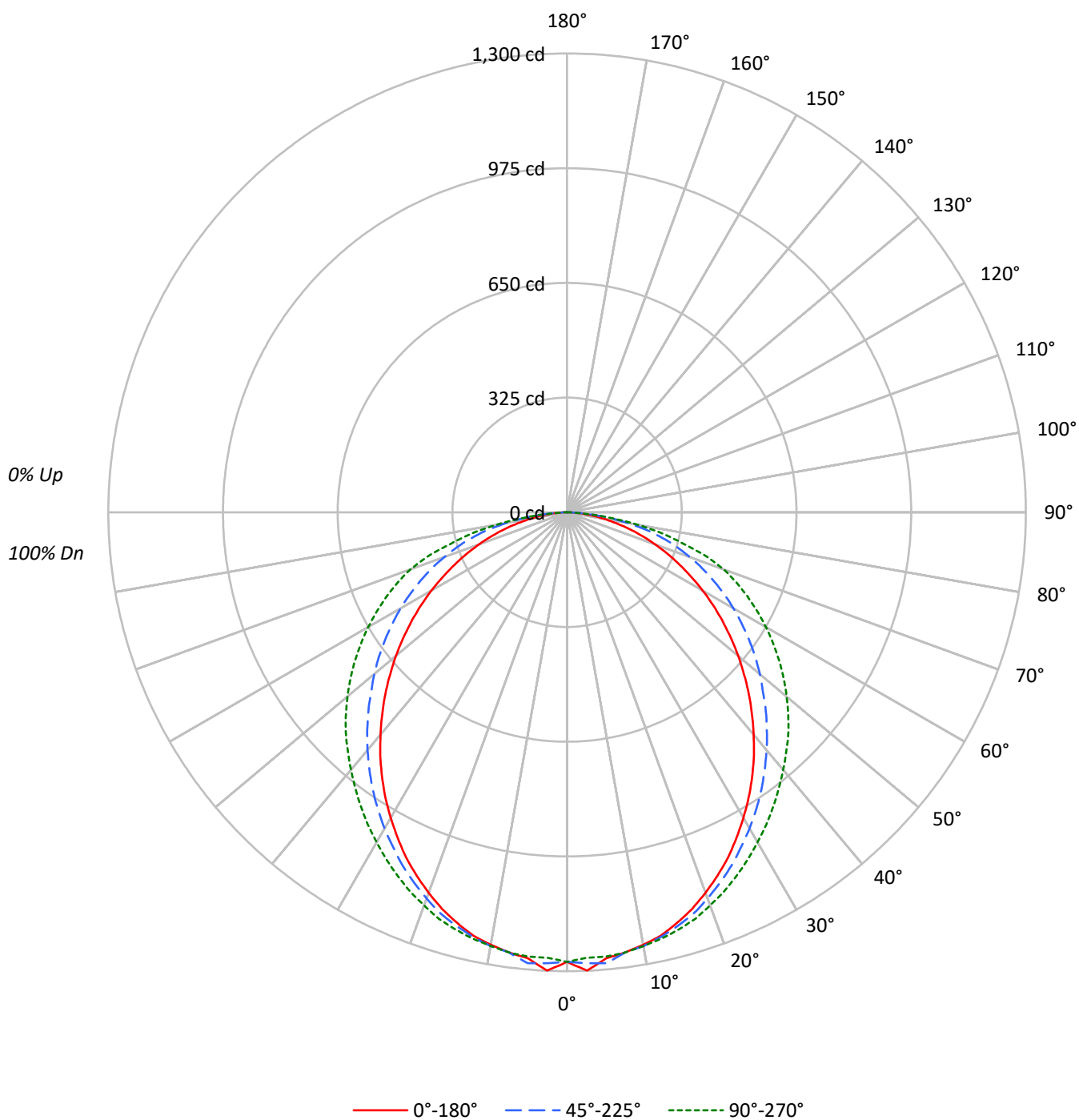
Input Watts (W): 30.69
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	108	104	99	95	106	101	97	94	97	94	91		93	90	88		89
2	98	90	83	77	96	88	82	76	84	79	74		81	77	73		78
3	90	79	70	64	87	77	69	63	74	68	62		71	66	61		69
4	82	70	61	54	80	68	60	54	66	59	53		64	57	52		61
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		55
6	70	56	47	41	68	55	47	40	53	46	40		52	45	40		50
7	65	51	42	36	63	50	42	36	48	41	35		47	40	35		46
8	60	46	38	32	58	46	38	32	44	37	32		43	36	31		42
9	56	43	34	29	55	42	34	29	41	34	29		40	33	28		39
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3427	3427	3427
5°	3426	3464	3412
10°	3399	3409	3409
15°	3355	3379	3408
20°	3284	3334	3394
25°	3204	3276	3374
30°	3105	3213	3353
35°	3004	3152	3346
40°	2889	3090	3346
45°	2773	3031	3374
50°	2651	2985	3399
55°	2524	2955	3443
60°	2391	2932	3502
65°	2243	2917	3591
70°	2089	2908	3713
75°	1894	2904	3517
80°	1640	2689	3119
85°	1392	2035	1982



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.8	3.4
10°-20°	342.1	9.6
20°-30°	509.0	14.3
30°-40°	602.0	16.9
40°-50°	618.7	17.3
50°-60°	565.4	15.8
60°-70°	452.3	12.7
70°-80°	283.8	8.0
80°-90°	73.9	2.1
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°	971.9	27.2
0°-40°	1573.9	44.1
0°-60°	2758.0	77.3
0°-90°	3568.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3568.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1274	1274	1274	1274	1274	
5°	1268	1268	1282	1274	1263	121
15°	1204	1206	1213	1220	1223	339
25°	1079	1086	1104	1123	1136	496
35°	914	926	960	996	1018	571
45°	729	748	796	855	887	562
55°	538	564	630	699	734	481
65°	352	383	458	528	564	350
75°	182	217	279	321	338	193
85°	45	57	66	64	64	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1273.5	1273.5	1273.5	1273.5	1273.5
2.5°	1299.6	1294.4	1278.7	1268.3	1263.1
5°	1268.3	1268.3	1282.2	1273.5	1263.1
7.5°	1257.9	1257.9	1257.9	1283.9	1257.9
10°	1244.0	1245.8	1247.5	1257.9	1247.5
12.5°	1228.4	1228.4	1231.9	1235.4	1237.1
15°	1204.1	1205.9	1212.8	1219.8	1223.2
17.5°	1178.1	1183.3	1192.0	1200.7	1207.6
20°	1146.9	1153.8	1164.2	1178.1	1185.1
22.5°	1113.9	1120.9	1134.7	1150.3	1162.5
25°	1079.2	1086.2	1103.5	1122.6	1136.5
27.5°	1039.3	1048.0	1068.8	1094.8	1108.7
30°	999.4	1009.8	1034.1	1063.6	1079.2
32.5°	957.8	969.9	997.7	1030.6	1049.7
35°	914.4	926.5	959.5	995.9	1018.5
37.5°	869.3	883.1	919.6	961.2	985.5
40°	822.4	838.0	879.7	924.8	952.6
42.5°	775.6	792.9	838.0	891.8	919.6
45°	728.7	747.8	796.4	855.4	886.6
47.5°	680.1	702.7	753.0	819.0	850.2
50°	633.3	655.9	713.1	780.8	812.0
52.5°	584.7	610.7	671.5	740.9	773.8
55°	537.9	563.9	629.8	699.2	733.9
57.5°	491.0	517.1	586.5	657.6	692.3
60°	444.2	471.9	544.8	614.2	650.7
62.5°	397.3	426.8	501.4	572.6	607.3
65°	352.2	383.4	458.1	527.5	563.9
67.5°	308.8	341.8	414.7	482.3	518.8
70°	265.5	298.4	369.6	435.5	471.9
72.5°	223.8	256.8	326.2	385.2	412.9
75°	182.2	216.9	279.3	321.0	338.3
77.5°	142.3	177.0	230.8	258.5	277.6
80°	105.8	135.3	173.5	194.3	201.3
82.5°	72.9	97.2	121.5	126.7	130.1
85°	45.1	57.3	65.9	64.2	64.2
87.5°	20.8	22.6	19.1	13.9	8.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)