

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: P259361

Luminaire Tested: **22CZ-LD5-39-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259361
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-4000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3478.0 lumens
Efficiency: N/A
Efficacy: 114.0 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

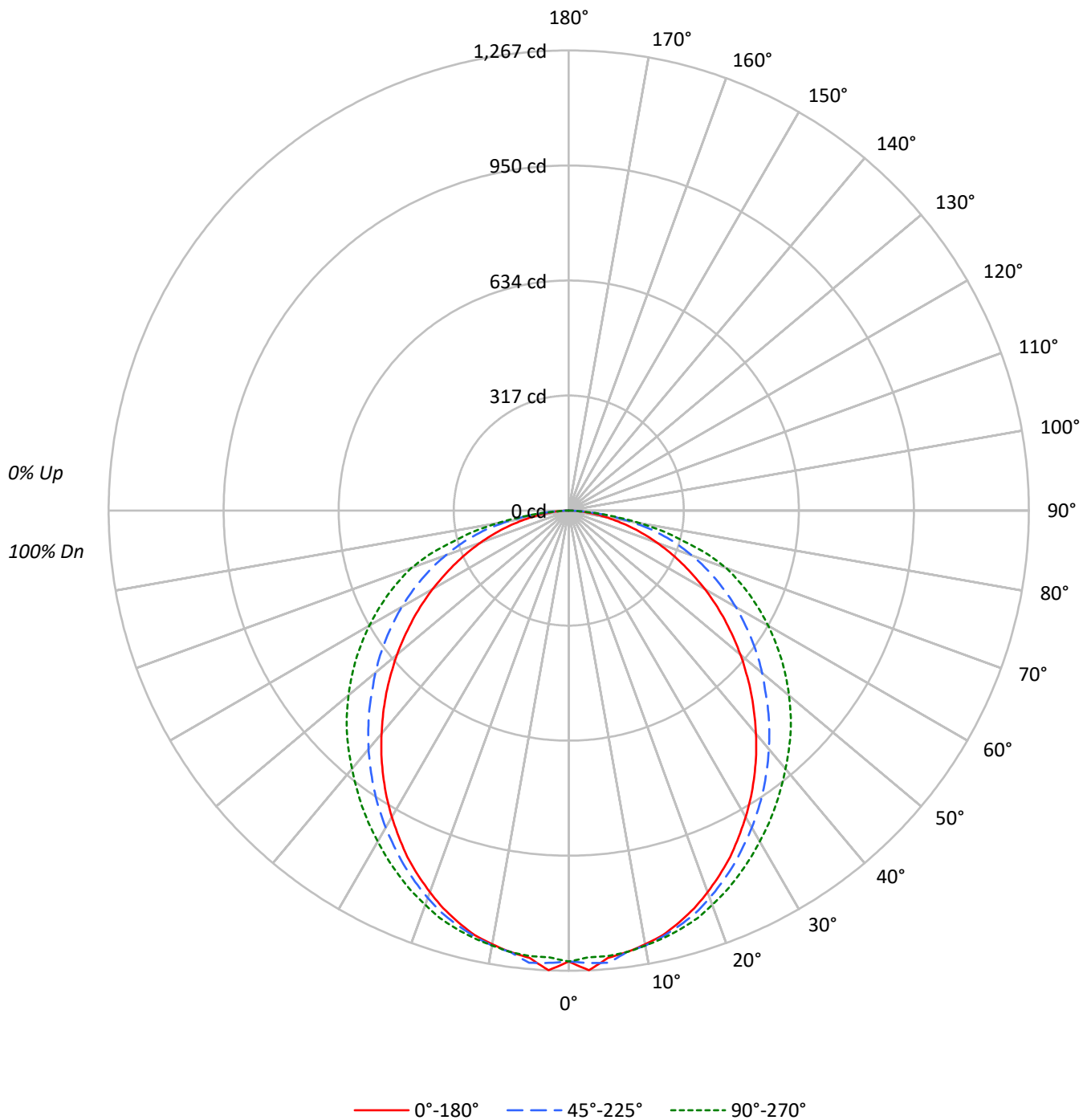
Input Watts (W): 30.504
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3341	3341	3341
5°	3340	3376	3326
10°	3314	3323	3323
15°	3270	3293	3322
20°	3202	3250	3308
25°	3124	3194	3289
30°	3027	3132	3269
35°	2928	3073	3261
40°	2816	3012	3262
45°	2703	2954	3289
50°	2584	2910	3314
55°	2460	2880	3356
60°	2330	2858	3413
65°	2186	2843	3500
70°	2036	2834	3619
75°	1847	2831	3429
80°	1599	2620	3040
85°	1359	1985	1933



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.7	3.4
10°-20°	333.5	9.6
20°-30°	496.1	14.3
30°-40°	586.8	16.9
40°-50°	603.1	17.3
50°-60°	551.1	15.8
60°-70°	440.9	12.7
70°-80°	276.7	8.0
80°-90°	72.1	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°	947.4	27.2
0°-40°	1534.2	44.1
0°-60°	2688.4	77.3
0°-90°	3478.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3478.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1241	1241	1241	1241	1241	
5°	1236	1236	1250	1241	1231	118
15°	1174	1176	1182	1189	1192	331
25°	1052	1059	1076	1094	1108	484
35°	891	903	935	971	993	557
45°	710	729	776	834	864	548
55°	524	550	614	682	715	469
65°	343	374	446	514	550	341
75°	178	211	272	313	330	189
85°	44	56	64	63	63	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1241.4	1241.4	1241.4	1241.4	1241.4
2.5°	1266.8	1261.7	1246.5	1236.3	1231.3
5°	1236.3	1236.3	1249.9	1241.4	1231.3
7.5°	1226.2	1226.2	1226.2	1251.6	1226.2
10°	1212.7	1214.4	1216.0	1226.2	1216.0
12.5°	1197.4	1197.4	1200.8	1204.2	1205.9
15°	1173.8	1175.5	1182.2	1189.0	1192.4
17.5°	1148.4	1153.5	1161.9	1170.4	1177.1
20°	1118.0	1124.7	1134.9	1148.4	1155.2
22.5°	1085.8	1092.6	1106.1	1121.3	1133.2
25°	1052.0	1058.8	1075.7	1094.3	1107.8
27.5°	1013.1	1021.5	1041.8	1067.2	1080.7
30°	974.2	984.3	1008.0	1036.8	1052.0
32.5°	933.6	945.4	972.5	1004.6	1023.2
35°	891.3	903.2	935.3	970.8	992.8
37.5°	847.3	860.9	896.4	937.0	960.7
40°	801.7	816.9	857.5	901.5	928.5
42.5°	756.0	772.9	816.9	869.3	896.4
45°	710.3	729.0	776.3	833.8	864.3
47.5°	663.0	685.0	734.0	798.3	828.7
50°	617.3	639.3	695.1	761.1	791.5
52.5°	570.0	595.3	654.5	722.2	754.3
55°	524.3	549.7	613.9	681.6	715.4
57.5°	478.6	504.0	571.7	641.0	674.8
60°	433.0	460.0	531.1	598.7	634.2
62.5°	387.3	416.1	488.8	558.1	592.0
65°	343.3	373.8	446.5	514.2	549.7
67.5°	301.1	333.2	404.2	470.2	505.7
70°	258.8	290.9	360.2	424.5	460.0
72.5°	218.2	250.3	318.0	375.5	402.5
75°	177.6	211.4	272.3	312.9	329.8
77.5°	138.7	172.5	224.9	252.0	270.6
80°	103.2	131.9	169.1	189.4	196.2
82.5°	71.0	94.7	118.4	123.5	126.8
85°	44.0	55.8	64.3	62.6	62.6
87.5°	20.3	22.0	18.6	13.5	8.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)