

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: P259530

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259530
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25712)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-39-S-UNV-L92765-W2A1-U-4500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3639.0 lumens
Efficiency: N/A
Efficacy: 118.6 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

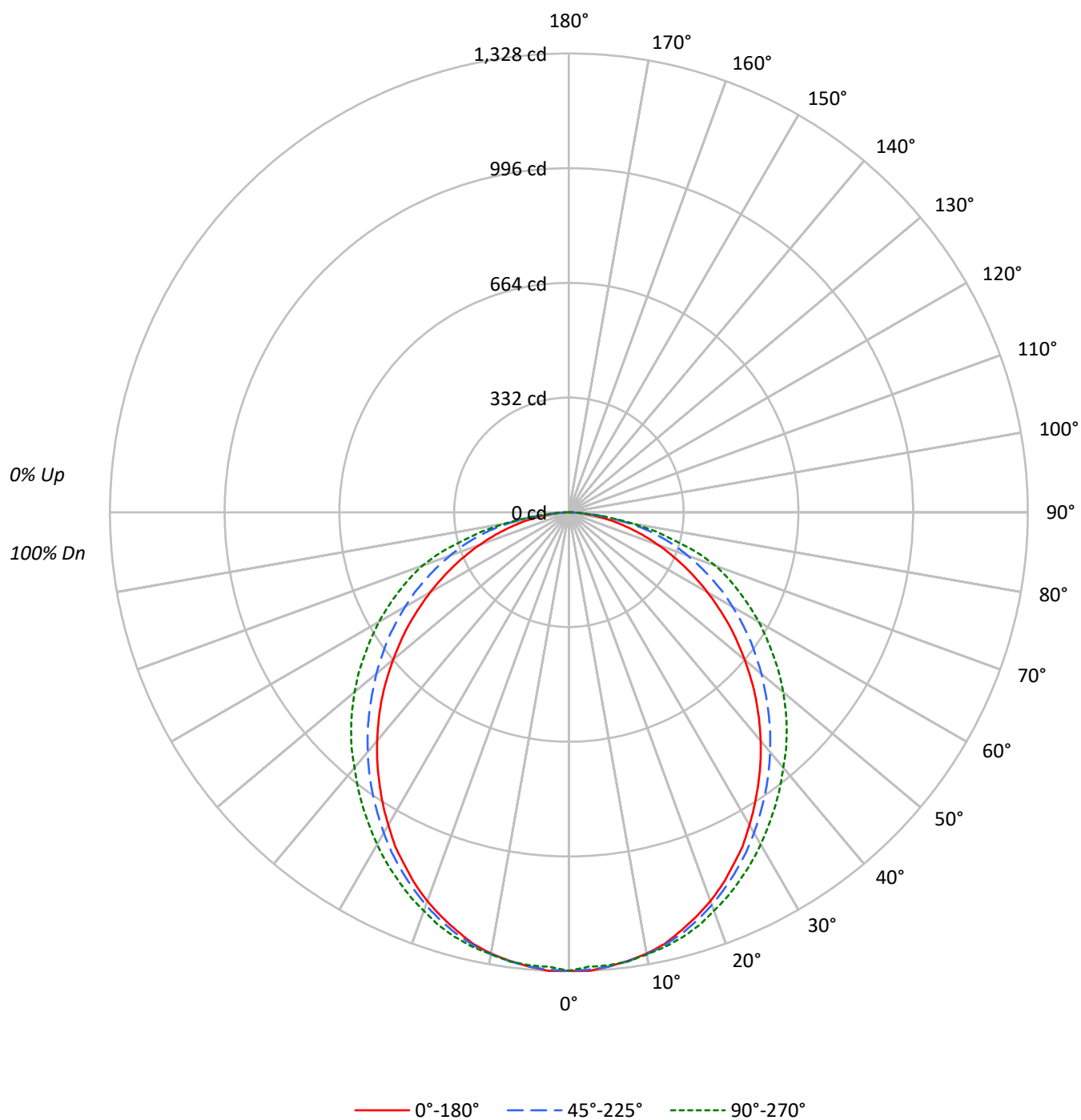
Input Watts (W): 30.69
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85
2	99	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71
3	90	79	71	64	87	78	70	64	75	68	63	72	66	62	69	64	60
4	82	70	61	54	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	56	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	36	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	34	29	39	33	29
10	53	40	32	26	52	39	32	26	38	31	26	37	31	26	36	30	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3570	3570	3570
5°	3565	3565	3555
10°	3544	3549	3549
15°	3491	3516	3545
20°	3429	3464	3514
25°	3342	3399	3482
30°	3248	3329	3449
35°	3141	3256	3416
40°	3033	3181	3389
45°	2914	3107	3392
50°	2781	3044	3388
55°	2649	2993	3387
60°	2493	2944	3415
65°	2337	2905	3461
70°	2159	2874	3548
75°	1944	2853	3290
80°	1706	2655	2872
85°	1402	1998	1782



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.3	3.4
10°-20°	355.9	9.8
20°-30°	528.6	14.5
30°-40°	622.2	17.1
40°-50°	634.3	17.4
50°-60°	572.1	15.7
60°-70°	450.6	12.4
70°-80°	277.9	7.6
80°-90°	72.2	2.0
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°	1009.7	27.7
0°-40°	1631.9	44.8
0°-60°	2838.3	78.0
0°-90°	3639.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3639.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1327	1327	1327	1327	1327	
5°	1320	1321	1320	1318	1316	125
15°	1253	1258	1262	1269	1272	353
25°	1126	1133	1145	1164	1173	519
35°	956	967	991	1022	1040	598
45°	766	778	816	865	891	590
55°	565	584	638	696	722	504
65°	367	393	456	514	544	364
75°	187	218	274	306	316	200
85°	45	58	65	61	58	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1326.6	1326.6	1326.6	1326.6	1326.6
2.5°	1328.4	1328.4	1324.9	1321.4	1316.1
5°	1319.6	1321.4	1319.6	1317.9	1316.1
7.5°	1309.2	1310.9	1310.9	1310.9	1310.9
10°	1296.9	1298.7	1298.7	1298.7	1298.7
12.5°	1279.4	1281.2	1282.9	1284.7	1288.2
15°	1253.2	1258.5	1262.0	1269.0	1272.4
17.5°	1227.0	1232.2	1237.5	1246.2	1253.2
20°	1197.3	1200.8	1209.5	1220.0	1227.0
22.5°	1164.1	1169.3	1178.1	1192.0	1202.5
25°	1125.6	1132.6	1144.9	1164.1	1172.8
27.5°	1088.9	1094.2	1109.9	1130.9	1143.1
30°	1045.2	1052.2	1071.4	1097.7	1109.9
32.5°	1001.5	1010.3	1031.2	1061.0	1074.9
35°	956.1	966.6	991.0	1022.5	1040.0
37.5°	910.6	921.1	949.1	984.0	1003.3
40°	863.4	873.9	905.4	943.8	964.8
42.5°	814.5	826.7	861.7	905.4	929.9
45°	765.6	777.8	816.3	865.2	891.4
47.5°	714.9	728.9	770.8	825.0	851.2
50°	664.2	679.9	727.1	783.0	809.3
52.5°	613.5	631.0	681.7	739.3	767.3
55°	564.6	583.8	638.0	695.7	721.9
57.5°	512.1	534.8	592.5	648.5	678.2
60°	463.2	487.7	547.1	603.0	634.5
62.5°	414.2	440.5	503.4	559.3	589.0
65°	367.1	393.3	456.2	513.9	543.6
67.5°	319.9	349.6	410.7	468.4	498.1
70°	274.4	305.9	365.3	421.2	450.9
72.5°	230.7	262.2	321.6	374.0	391.5
75°	187.0	218.5	274.4	305.9	316.4
77.5°	146.8	176.5	225.5	244.7	258.7
80°	110.1	136.3	171.3	183.5	185.3
82.5°	75.2	97.9	118.9	120.6	118.9
85°	45.4	57.7	64.7	61.2	57.7
87.5°	21.0	22.7	21.0	14.0	8.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)