

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: P259532

Luminaire Tested: **22CZ-LD5-39-S-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259532
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-5500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3770.0 lumens
Efficiency: N/A
Efficacy: 121.7 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

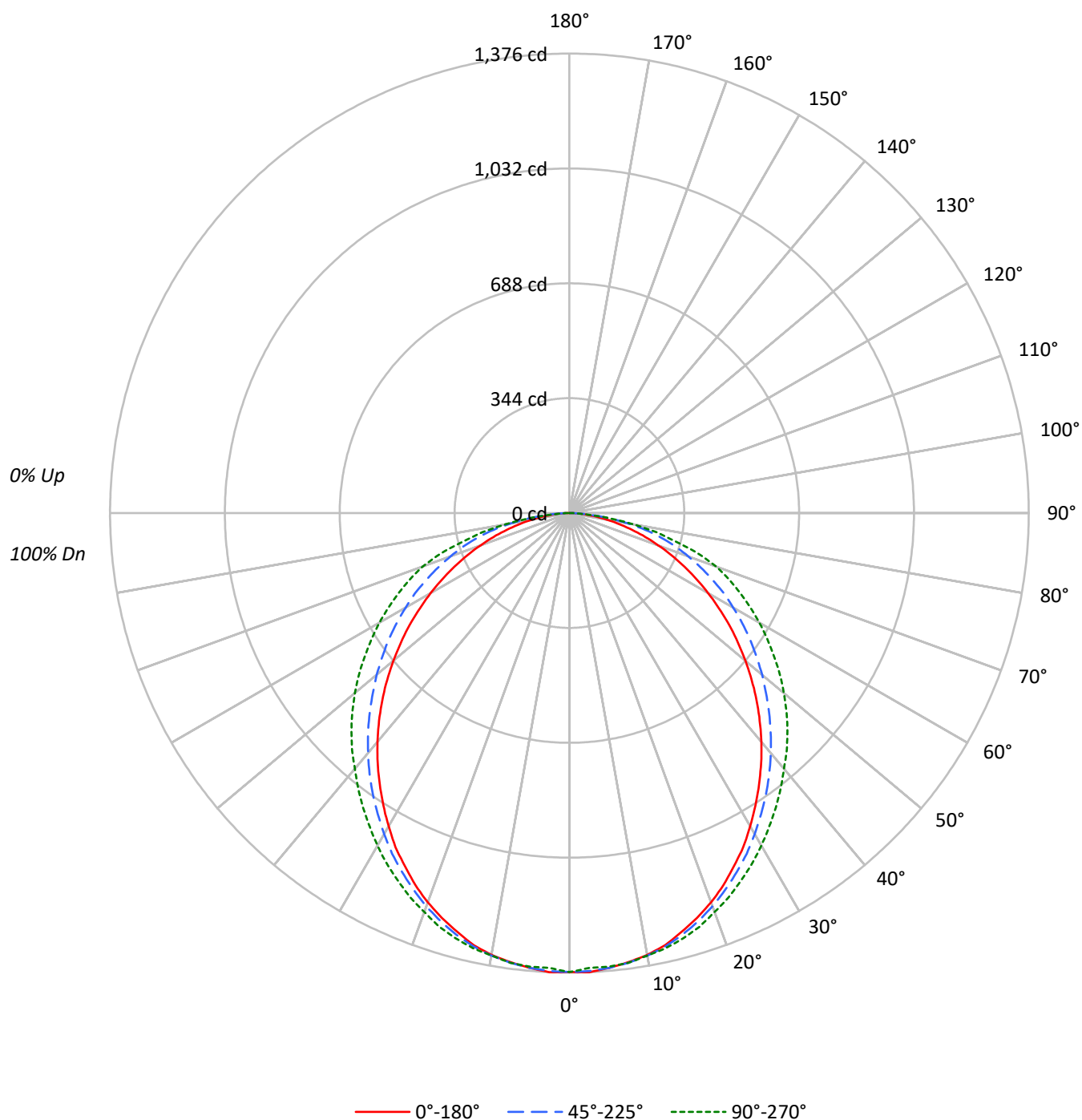
Input Watts (W): 30.969
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83		
2	99	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71	69		
3	90	79	71	64	87	78	70	64	75	68	63	72	66	62	69	64	60	58		
4	82	70	61	54	80	69	61	54	66	59	53	64	58	53	62	56	52	50		
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43		
6	70	56	47	41	68	56	47	41	54	46	40	52	45	40	50	44	40	38		
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33		
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30		
9	56	43	35	29	55	42	34	29	41	34	29	40	34	29	39	33	29	27		
10	53	40	32	26	52	39	32	26	38	31	26	37	31	26	36	30	26	24		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3698	3698	3698
5°	3693	3693	3683
10°	3671	3676	3676
15°	3617	3642	3673
20°	3552	3588	3640
25°	3462	3522	3608
30°	3365	3449	3573
35°	3254	3373	3539
40°	3142	3295	3511
45°	3018	3218	3514
50°	2881	3154	3510
55°	2744	3101	3509
60°	2583	3050	3538
65°	2422	3009	3586
70°	2237	2978	3676
75°	2015	2956	3408
80°	1768	2751	2974
85°	1454	2069	1846



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.8	3.4
10°-20°	368.7	9.8
20°-30°	547.6	14.5
30°-40°	644.6	17.1
40°-50°	657.1	17.4
50°-60°	592.7	15.7
60°-70°	466.8	12.4
70°-80°	288.0	7.6
80°-90°	74.7	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°	1046.1	27.7
0°-40°	1690.7	44.8
0°-60°	2940.5	78.0
0°-90°	3770.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3770.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1374	1374	1374	1374	1374	
5°	1367	1369	1367	1365	1364	130
15°	1298	1304	1307	1315	1318	366
25°	1166	1173	1186	1206	1215	537
35°	990	1001	1027	1059	1077	620
45°	793	806	846	896	924	611
55°	585	605	661	721	748	522
65°	380	407	473	532	563	377
75°	194	226	284	317	328	207
85°	47	60	67	63	60	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1374.4	1374.4	1374.4	1374.4	1374.4
2.5°	1376.2	1376.2	1372.6	1369.0	1363.5
5°	1367.1	1369.0	1367.1	1365.3	1363.5
7.5°	1356.3	1358.1	1358.1	1358.1	1358.1
10°	1343.6	1345.4	1345.4	1345.4	1345.4
12.5°	1325.5	1327.3	1329.1	1330.9	1334.6
15°	1298.3	1303.8	1307.4	1314.6	1318.3
17.5°	1271.2	1276.6	1282.0	1291.1	1298.3
20°	1240.4	1244.0	1253.1	1263.9	1271.2
22.5°	1206.0	1211.4	1220.5	1235.0	1245.8
25°	1166.1	1173.4	1186.1	1206.0	1215.0
27.5°	1128.1	1133.6	1149.9	1171.6	1184.3
30°	1082.9	1090.1	1110.0	1137.2	1149.9
32.5°	1037.6	1046.6	1068.4	1099.1	1113.6
35°	990.5	1001.4	1026.7	1059.3	1077.4
37.5°	943.4	954.3	983.3	1019.5	1039.4
40°	894.5	905.4	938.0	977.8	999.6
42.5°	843.8	856.5	892.7	938.0	963.3
45°	793.1	805.8	845.6	896.3	923.5
47.5°	740.6	755.1	798.6	854.7	881.9
50°	688.1	704.4	753.3	811.2	838.4
52.5°	635.6	653.7	706.2	766.0	794.9
55°	584.9	604.8	660.9	720.7	747.9
57.5°	530.6	554.1	613.9	671.8	702.6
60°	479.9	505.2	566.8	624.7	657.3
62.5°	429.2	456.3	521.5	579.5	610.2
65°	380.3	407.4	472.6	532.4	563.2
67.5°	331.4	362.2	425.5	485.3	516.1
70°	284.3	316.9	378.5	436.4	467.2
72.5°	239.0	271.6	333.2	387.5	405.6
75°	193.8	226.3	284.3	316.9	327.8
77.5°	152.1	182.9	233.6	253.5	268.0
80°	114.1	141.2	177.5	190.1	191.9
82.5°	77.9	101.4	123.1	124.9	123.1
85°	47.1	59.8	67.0	63.4	59.8
87.5°	21.7	23.5	21.7	14.5	9.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)