

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: P260419

Luminaire Tested: **22CZ-LD5-24-RDP-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260419
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25714)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-24-RDP-UNV-L93050-W2A1-U-3000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1397.0 lumens
Efficiency: N/A
Efficacy: 77.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

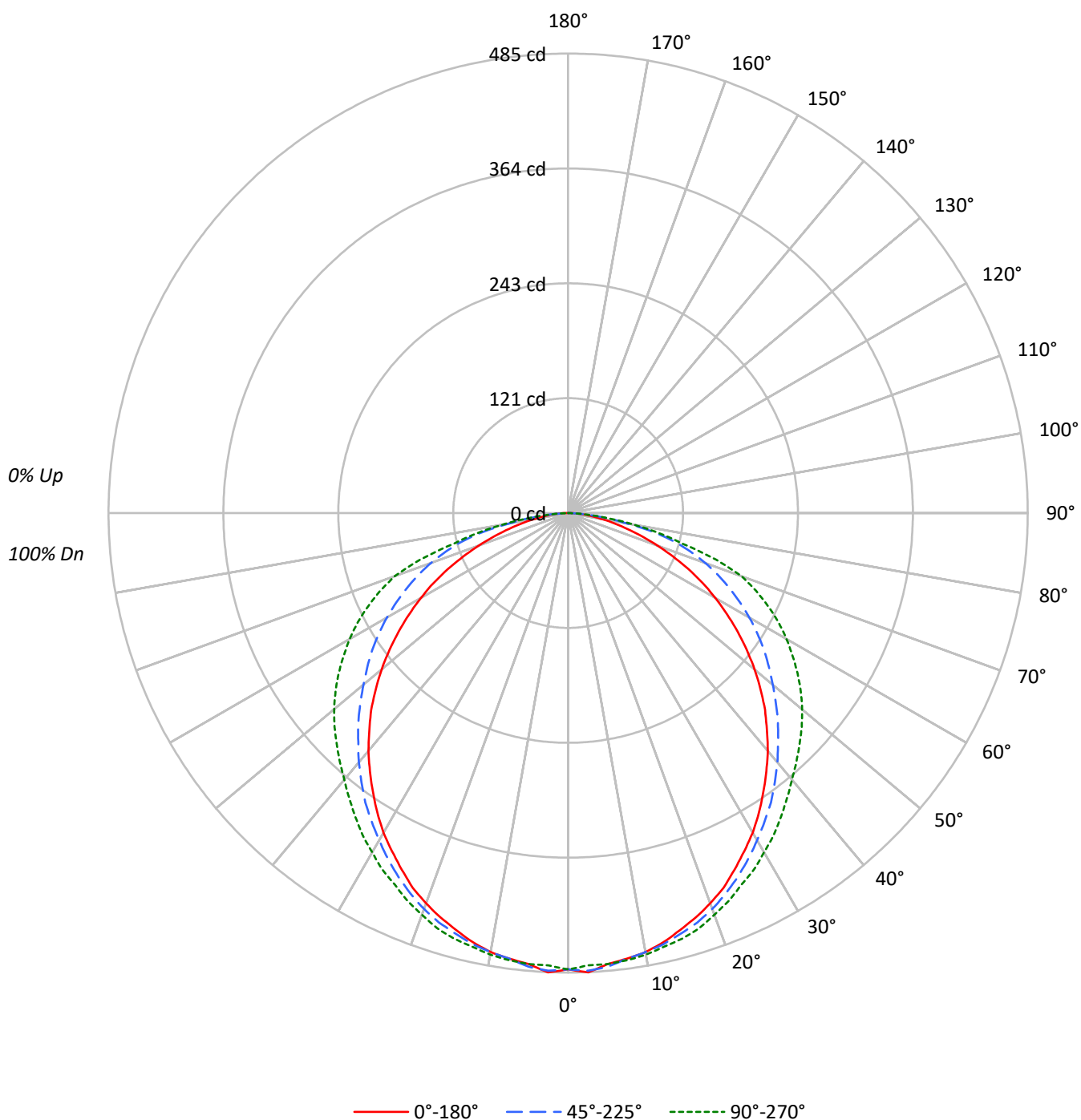
Input Watts (W): 17.981271
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	104	99	95	106	101	97	94		97	94	91		93	90	88		89	87	85
2	98	90	83	77	96	88	81	76		84	79	74		81	77	73		78	74	71
3	89	79	70	64	87	77	69	63		74	67	62		71	66	61		69	64	60
4	82	69	60	54	79	68	60	53		66	58	52		63	57	52		61	56	51
5	75	62	53	46	73	61	52	46		59	51	45		57	50	45		55	49	44
6	69	56	47	40	67	55	46	40		53	45	40		51	44	39		50	44	39
7	64	50	42	35	62	50	41	35		48	40	35		47	40	35		45	39	34
8	60	46	37	31	58	45	37	31		44	37	31		43	36	31		42	35	31
9	56	42	34	28	54	42	34	28		40	33	28		39	33	28		38	32	28
10	52	39	31	26	51	38	31	26		37	30	25		36	30	25		36	30	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1296	1296	1296
5°	1291	1298	1291
10°	1286	1286	1293
15°	1270	1280	1296
20°	1255	1274	1292
25°	1233	1258	1285
30°	1210	1239	1285
35°	1180	1225	1286
40°	1152	1207	1291
45°	1118	1192	1314
50°	1075	1180	1349
55°	1024	1184	1387
60°	967	1189	1432
65°	891	1196	1484
70°	790	1210	1529
75°	671	1206	1302
80°	556	970	1085
85°	485	655	627



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.5	3.3
10°-20°	129.8	9.3
20°-30°	195.3	14.0
30°-40°	234.0	16.8
40°-50°	244.0	17.5
50°-60°	227.2	16.3
60°-70°	184.5	13.2
70°-80°	111.2	8.0
80°-90°	25.5	1.8
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°	370.6	26.5
0°-40°	604.6	43.3
0°-60°	1075.8	77.0
0°-90°	1397.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1397.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	482	482	482	482	482	
5°	478	478	481	482	478	45
15°	456	458	460	462	465	129
25°	415	418	424	429	433	191
35°	359	364	373	384	391	225
45°	294	299	313	333	345	226
55°	218	228	252	280	296	195
65°	140	155	188	217	233	138
75°	64	86	116	123	125	70
85°	16	19	21	20	20	18
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	481.6	481.6	481.6	481.6	481.6
2.5°	485.3	484.4	483.5	480.7	477.9
5°	477.9	477.9	480.7	481.6	477.9
7.5°	474.3	474.3	474.3	477.9	476.1
10°	470.6	470.6	470.6	473.3	473.3
12.5°	464.1	465.1	466.0	466.9	468.7
15°	455.8	457.7	459.5	462.3	465.1
17.5°	447.6	449.4	453.1	455.8	459.5
20°	438.4	440.2	444.8	447.6	451.2
22.5°	428.2	429.1	434.7	438.4	443.0
25°	415.3	418.1	423.6	429.1	432.8
27.5°	402.4	405.2	411.6	419.0	424.5
30°	389.5	392.3	398.8	408.0	413.5
32.5°	374.8	378.5	385.9	396.9	403.4
35°	359.2	363.8	373.0	384.0	391.4
37.5°	343.5	348.1	358.2	372.0	379.4
40°	327.8	332.4	343.5	358.2	367.4
42.5°	310.3	315.9	327.8	345.3	356.4
45°	293.8	299.3	313.1	333.4	345.3
47.5°	275.4	281.8	297.5	320.5	334.3
50°	256.9	264.3	281.8	307.6	322.3
52.5°	237.6	245.9	267.1	293.8	309.4
55°	218.3	227.5	252.3	280.0	295.6
57.5°	198.9	209.0	236.7	265.2	280.9
60°	179.6	190.6	221.0	250.5	266.1
62.5°	160.2	172.2	204.4	233.9	250.5
65°	140.0	154.7	187.9	217.3	233.0
67.5°	119.7	137.2	171.3	199.8	214.6
70°	100.4	119.7	153.8	180.5	194.3
72.5°	82.0	102.2	135.4	158.4	163.9
75°	64.5	85.6	116.0	123.4	125.2
77.5°	49.7	69.1	92.1	93.9	98.5
80°	35.9	52.5	62.6	68.1	70.0
82.5°	24.9	35.9	41.4	42.4	43.3
85°	15.7	19.3	21.2	20.3	20.3
87.5°	8.3	7.4	6.4	4.6	3.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)