

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: P260223

Luminaire Tested: **22CZ-LD5-24-SQP-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260223
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25713)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-24-SQP-UNV-L83050-W2A1-U-4000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1602.0 lumens
Efficiency: N/A
Efficacy: 89.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

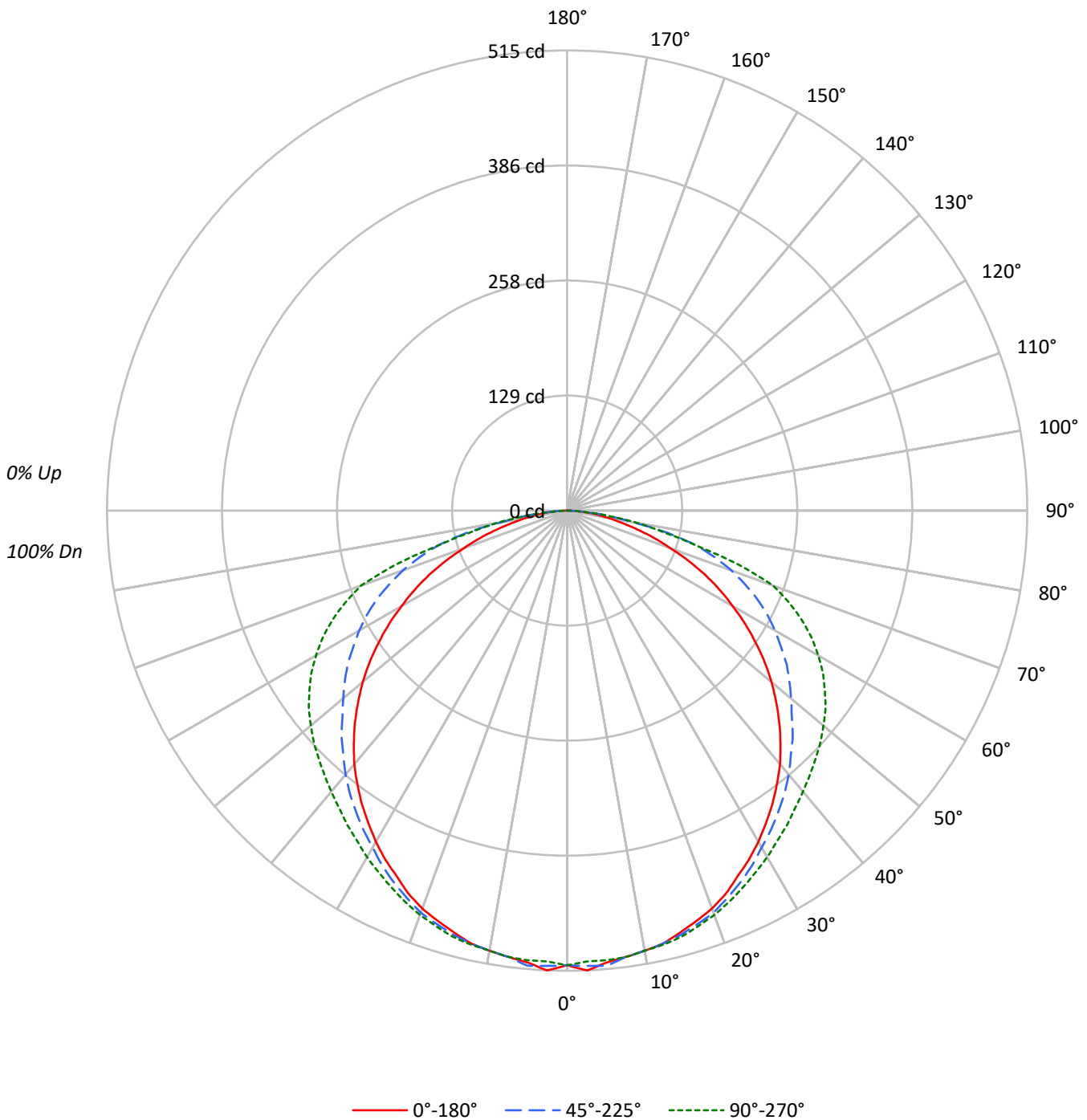
Input Watts (W): 17.949
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0		
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	108	103	99	95	105	101	97	93	97	93	90		93	90	87		89	87	85	83
2	98	89	82	76	95	87	81	75	84	78	73		80	76	71		77	73	70	68
3	89	78	69	62	86	76	68	62	73	66	61		70	64	59		68	63	58	56
4	81	68	59	52	79	67	58	52	64	57	51		62	56	50		60	54	50	47
5	74	61	52	45	72	60	51	44	58	50	44		56	49	43		54	48	43	41
6	68	55	45	39	66	54	45	39	52	44	38		50	43	38		48	42	37	35
7	63	49	40	34	62	49	40	34	47	39	34		45	39	33		44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30		42	35	30		40	34	29	28
9	55	41	33	27	54	41	33	27	39	32	27		38	32	27		37	31	27	25
10	51	38	30	24	50	37	30	24	36	29	24		35	29	24		35	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1369	1369	1369
5°	1371	1381	1364
10°	1367	1367	1367
15°	1362	1369	1376
20°	1357	1372	1379
25°	1341	1363	1382
30°	1330	1353	1392
35°	1316	1353	1410
40°	1302	1355	1442
45°	1278	1359	1496
50°	1250	1370	1568
55°	1208	1407	1652
60°	1152	1446	1748
65°	1085	1497	1846
70°	969	1537	1928
75°	841	1539	1526
80°	713	1137	1234
85°	614	769	692



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.3	3.0
10°-20°	138.7	8.7
20°-30°	211.4	13.2
30°-40°	258.7	16.1
40°-50°	278.4	17.4
50°-60°	269.6	16.8
60°-70°	228.4	14.3
70°-80°	138.0	8.6
80°-90°	30.3	1.9
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°	398.5	24.9
0°-40°	657.2	41.0
0°-60°	1205.2	75.2
0°-90°	1602.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1602.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	509	509	509	509	509	
5°	508	508	511	509	505	48
15°	489	490	491	493	494	138
25°	452	454	459	463	465	208
35°	401	403	412	423	429	251
45°	336	342	357	380	393	259
55°	258	269	300	335	352	230
65°	170	189	235	272	290	168
75°	81	110	148	150	147	87
85°	20	24	25	24	22	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	508.8	508.8	508.8	508.8	508.8
2.5°	515.1	513.8	510.1	507.6	505.1
5°	507.6	507.6	511.3	508.8	505.1
7.5°	503.9	503.9	503.9	510.1	503.9
10°	500.1	501.4	500.1	505.1	500.1
12.5°	496.4	496.4	496.4	497.6	497.6
15°	488.9	490.2	491.4	492.7	493.9
17.5°	481.5	482.7	485.2	486.4	487.7
20°	474.0	475.2	479.0	479.0	481.5
22.5°	464.1	464.1	469.0	470.3	474.0
25°	451.6	454.1	459.1	462.8	465.3
27.5°	440.4	442.9	447.9	452.9	456.6
30°	428.0	430.5	435.4	442.9	447.9
32.5°	414.3	416.8	424.2	432.9	437.9
35°	400.6	403.1	411.8	423.0	429.2
37.5°	385.7	389.4	399.4	411.8	419.3
40°	370.7	374.5	385.7	399.4	410.6
42.5°	353.3	358.3	370.7	389.4	401.8
45°	335.9	342.1	357.1	379.5	393.1
47.5°	317.2	323.5	340.9	369.5	384.4
50°	298.6	306.0	327.2	358.3	374.5
52.5°	278.7	286.1	313.5	347.1	364.5
55°	257.5	268.7	299.8	334.7	352.1
57.5°	236.4	248.8	283.7	321.0	339.6
60°	214.0	228.9	268.7	306.0	324.7
62.5°	192.8	209.0	252.6	289.9	308.5
65°	170.4	189.1	235.1	272.5	289.9
67.5°	146.8	170.4	215.2	251.3	268.7
70°	123.2	150.5	195.3	228.9	245.1
72.5°	102.0	130.6	172.9	201.5	201.5
75°	80.9	109.5	148.0	150.5	146.8
77.5°	62.2	89.6	115.7	105.7	108.2
80°	46.0	68.4	73.4	77.1	79.6
82.5°	31.1	46.0	47.3	49.8	49.8
85°	19.9	23.6	24.9	23.6	22.4
87.5°	8.7	10.0	7.5	5.0	3.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)