

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: P260221

Luminaire Tested: **22CZ-LD5-24-SQP-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260221
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-3000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1442.0 lumens
Efficiency: N/A
Efficacy: 82.0 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

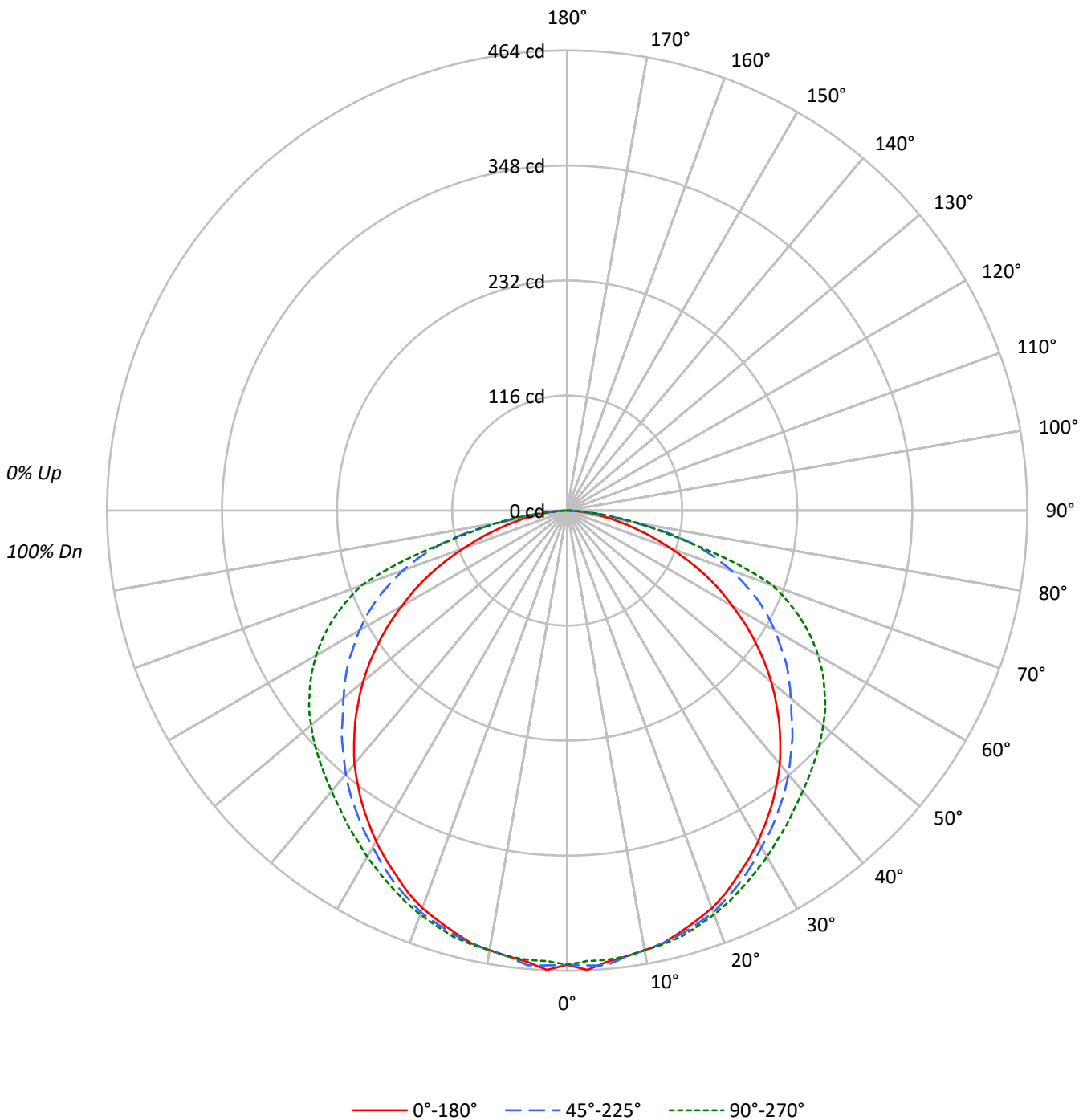
Input Watts (W): 17.577
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1232	1232	1232
5°	1234	1243	1228
10°	1230	1230	1230
15°	1226	1232	1239
20°	1222	1235	1241
25°	1207	1227	1243
30°	1197	1218	1253
35°	1185	1218	1269
40°	1172	1220	1298
45°	1151	1223	1347
50°	1125	1233	1411
55°	1088	1266	1487
60°	1037	1302	1573
65°	977	1348	1661
70°	873	1383	1736
75°	757	1386	1373
80°	642	1024	1111
85°	553	692	624



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.5	3.0
10°-20°	124.9	8.7
20°-30°	190.3	13.2
30°-40°	232.9	16.1
40°-50°	250.6	17.4
50°-60°	242.7	16.8
60°-70°	205.6	14.3
70°-80°	124.3	8.6
80°-90°	27.3	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°	358.7	24.9
0°-40°	591.6	41.0
0°-60°	1084.8	75.2
0°-90°	1442.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1442.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	458	458	458	458	458	
5°	457	457	460	458	455	43
15°	440	441	442	444	445	124
25°	406	409	413	417	419	188
35°	361	363	371	381	386	226
45°	302	308	321	342	354	233
55°	232	242	270	301	317	207
65°	153	170	212	245	261	151
75°	73	98	133	136	132	78
85°	18	21	22	21	20	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	458.0	458.0	458.0	458.0	458.0
2.5°	463.6	462.5	459.1	456.9	454.7
5°	456.9	456.9	460.3	458.0	454.7
7.5°	453.5	453.5	453.5	459.1	453.5
10°	450.2	451.3	450.2	454.7	450.2
12.5°	446.8	446.8	446.8	447.9	447.9
15°	440.1	441.2	442.3	443.5	444.6
17.5°	433.4	434.5	436.7	437.9	439.0
20°	426.7	427.8	431.1	431.1	433.4
22.5°	417.7	417.7	422.2	423.3	426.7
25°	406.5	408.7	413.2	416.6	418.8
27.5°	396.4	398.7	403.1	407.6	411.0
30°	385.2	387.5	391.9	398.7	403.1
32.5°	372.9	375.1	381.9	389.7	394.2
35°	360.6	362.8	370.7	380.7	386.3
37.5°	347.2	350.5	359.5	370.7	377.4
40°	333.7	337.1	347.2	359.5	369.5
42.5°	318.0	322.5	333.7	350.5	361.7
45°	302.4	308.0	321.4	341.6	353.9
47.5°	285.6	291.2	306.8	332.6	346.0
50°	268.8	275.5	294.5	322.5	337.1
52.5°	250.8	257.6	282.2	312.4	328.1
55°	231.8	241.9	269.9	301.2	316.9
57.5°	212.8	224.0	255.3	288.9	305.7
60°	192.6	206.1	241.9	275.5	292.3
62.5°	173.6	188.1	227.3	260.9	277.7
65°	153.4	170.2	211.7	245.2	260.9
67.5°	132.1	153.4	193.7	226.2	241.9
70°	110.9	135.5	175.8	206.1	220.6
72.5°	91.8	117.6	155.7	181.4	181.4
75°	72.8	98.5	133.3	135.5	132.1
77.5°	56.0	80.6	104.1	95.2	97.4
80°	41.4	61.6	66.1	69.4	71.7
82.5°	28.0	41.4	42.6	44.8	44.8
85°	17.9	21.3	22.4	21.3	20.2
87.5°	7.8	9.0	6.7	4.5	3.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)