

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: P260343

Luminaire Tested: **22CZ-LD5-24-SQP-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260343
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-L92765-W2A1-U-4500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1382.0 lumens
Efficiency: N/A
Efficacy: 77.0 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

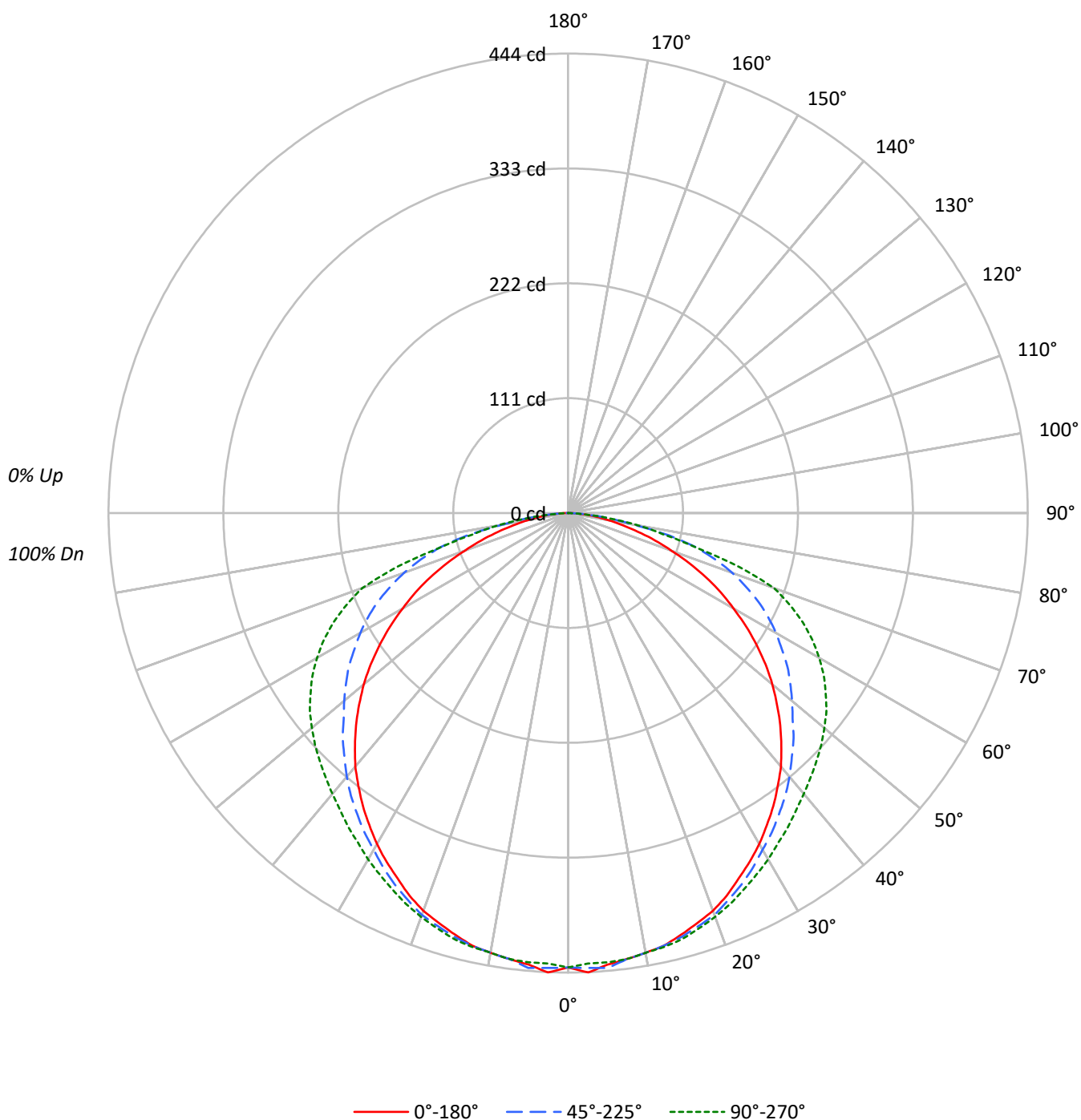
Input Watts (W): 17.949
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1181	1181	1181
5°	1183	1192	1177
10°	1179	1179	1179
15°	1175	1181	1187
20°	1171	1183	1189
25°	1157	1176	1192
30°	1147	1167	1201
35°	1135	1167	1216
40°	1123	1169	1244
45°	1103	1172	1290
50°	1078	1182	1352
55°	1042	1214	1425
60°	994	1248	1507
65°	936	1291	1592
70°	836	1326	1663
75°	726	1328	1316
80°	615	981	1065
85°	531	664	596



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.7	3.0
10°-20°	119.7	8.7
20°-30°	182.4	13.2
30°-40°	223.2	16.1
40°-50°	240.1	17.4
50°-60°	232.6	16.8
60°-70°	197.0	14.3
70°-80°	119.1	8.6
80°-90°	26.2	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°	343.8	24.9
0°-40°	566.9	41.0
0°-60°	1039.7	75.2
0°-90°	1382.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1382.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	439	439	439	439	439	
5°	438	438	441	439	436	42
15°	422	423	424	425	426	119
25°	390	392	396	399	401	180
35°	346	348	355	365	370	216
45°	290	295	308	327	339	223
55°	222	232	259	289	304	198
65°	147	163	203	235	250	145
75°	70	94	128	130	127	75
85°	17	20	22	20	19	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	439.0	439.0	439.0	439.0	439.0
2.5°	444.3	443.3	440.0	437.9	435.7
5°	437.9	437.9	441.1	439.0	435.7
7.5°	434.7	434.7	434.7	440.0	434.7
10°	431.4	432.5	431.4	435.7	431.4
12.5°	428.2	428.2	428.2	429.3	429.3
15°	421.8	422.9	423.9	425.0	426.1
17.5°	415.3	416.4	418.6	419.6	420.7
20°	408.9	410.0	413.2	413.2	415.3
22.5°	400.3	400.3	404.6	405.7	408.9
25°	389.6	391.7	396.0	399.2	401.4
27.5°	379.9	382.1	386.4	390.7	393.9
30°	369.2	371.3	375.6	382.1	386.4
32.5°	357.4	359.5	366.0	373.5	377.8
35°	345.6	347.7	355.2	364.9	370.3
37.5°	332.7	335.9	344.5	355.2	361.7
40°	319.8	323.0	332.7	344.5	354.2
42.5°	304.8	309.1	319.8	335.9	346.7
45°	289.8	295.1	308.0	327.3	339.1
47.5°	273.7	279.0	294.1	318.8	331.6
50°	257.6	264.0	282.3	309.1	323.0
52.5°	240.4	246.8	270.5	299.4	314.5
55°	222.2	231.8	258.7	288.7	303.7
57.5°	203.9	214.7	244.7	276.9	293.0
60°	184.6	197.5	231.8	264.0	280.1
62.5°	166.4	180.3	217.9	250.1	266.2
65°	147.0	163.1	202.8	235.0	250.1
67.5°	126.6	147.0	185.7	216.8	231.8
70°	106.3	129.9	168.5	197.5	211.4
72.5°	88.0	112.7	149.2	173.9	173.9
75°	69.8	94.4	127.7	129.9	126.6
77.5°	53.7	77.3	99.8	91.2	93.4
80°	39.7	59.0	63.3	66.5	68.7
82.5°	26.8	39.7	40.8	42.9	42.9
85°	17.2	20.4	21.5	20.4	19.3
87.5°	7.5	8.6	6.4	4.3	3.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)