

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: P260345

Luminaire Tested: **22CZ-LD5-24-SQP-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260345
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-5500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1432.0 lumens
Efficiency: N/A
Efficacy: 79.4 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

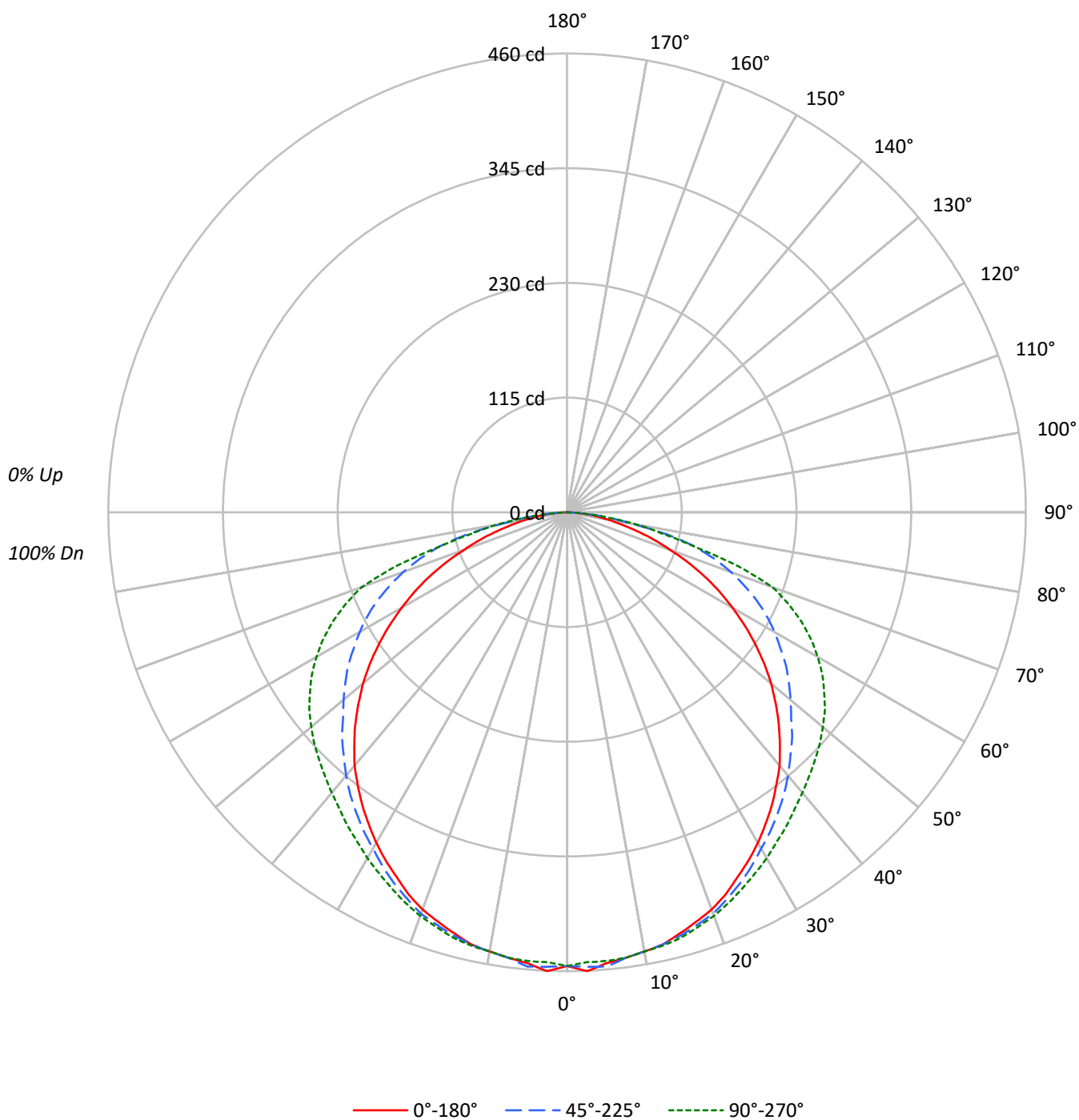
Input Watts (W): 18.042
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1224	1224	1224
5°	1226	1235	1220
10°	1222	1222	1222
15°	1217	1224	1230
20°	1213	1226	1233
25°	1199	1219	1235
30°	1189	1209	1244
35°	1176	1209	1260
40°	1164	1211	1289
45°	1143	1215	1337
50°	1117	1225	1401
55°	1080	1257	1476
60°	1030	1293	1562
65°	970	1338	1650
70°	866	1374	1724
75°	752	1376	1364
80°	637	1017	1103
85°	550	685	618



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.2	3.0
10°-20°	124.0	8.7
20°-30°	189.0	13.2
30°-40°	231.2	16.1
40°-50°	248.8	17.4
50°-60°	241.0	16.8
60°-70°	204.2	14.3
70°-80°	123.4	8.6
80°-90°	27.1	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°	356.2	24.9
0°-40°	587.5	41.0
0°-60°	1077.3	75.2
0°-90°	1432.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1432.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	455	455	455	455	455	
5°	454	454	457	455	452	43
15°	437	438	439	440	442	123
25°	404	406	410	414	416	186
35°	358	360	368	378	384	224
45°	300	306	319	339	351	231
55°	230	240	268	299	315	206
65°	152	169	210	244	259	150
75°	72	98	132	135	131	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°	454.8	454.8	454.8	454.8	454.8
2.5°	460.4	459.3	456.0	453.7	451.5
5°	453.7	453.7	457.1	454.8	451.5
7.5°	450.4	450.4	450.4	456.0	450.4
10°	447.1	448.2	447.1	451.5	447.1
12.5°	443.7	443.7	443.7	444.8	444.8
15°	437.0	438.2	439.3	440.4	441.5
17.5°	430.4	431.5	433.7	434.8	435.9
20°	423.7	424.8	428.2	428.2	430.4
22.5°	414.8	414.8	419.3	420.4	423.7
25°	403.7	405.9	410.4	413.7	415.9
27.5°	393.7	395.9	400.3	404.8	408.1
30°	382.6	384.8	389.2	395.9	400.3
32.5°	370.3	372.5	379.2	387.0	391.5
35°	358.1	360.3	368.1	378.1	383.7
37.5°	344.7	348.1	357.0	368.1	374.8
40°	331.4	334.7	344.7	357.0	367.0
42.5°	315.8	320.3	331.4	348.1	359.2
45°	300.3	305.8	319.2	339.2	351.4
47.5°	283.6	289.1	304.7	330.3	343.6
50°	266.9	273.6	292.5	320.3	334.7
52.5°	249.1	255.8	280.2	310.3	325.8
55°	230.2	240.2	268.0	299.2	314.7
57.5°	211.3	222.4	253.6	286.9	303.6
60°	191.3	204.6	240.2	273.6	290.3
62.5°	172.4	186.8	225.8	259.1	275.8
65°	152.4	169.0	210.2	243.5	259.1
67.5°	131.2	152.4	192.4	224.6	240.2
70°	110.1	134.6	174.6	204.6	219.1
72.5°	91.2	116.8	154.6	180.2	180.2
75°	72.3	97.9	132.3	134.6	131.2
77.5°	55.6	80.1	103.4	94.5	96.8
80°	41.1	61.2	65.6	68.9	71.2
82.5°	27.8	41.1	42.3	44.5	44.5
85°	17.8	21.1	22.2	21.1	20.0
87.5°	7.8	8.9	6.7	4.4	3.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)