

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: P260283

Luminaire Tested: **22CZ-LD5-20-SQP-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260283
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-LD5-20-SQP-UNV-L82765-W2A1-U-5700K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1410.0 lumens
Efficiency: N/A
Efficacy: 88.1 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

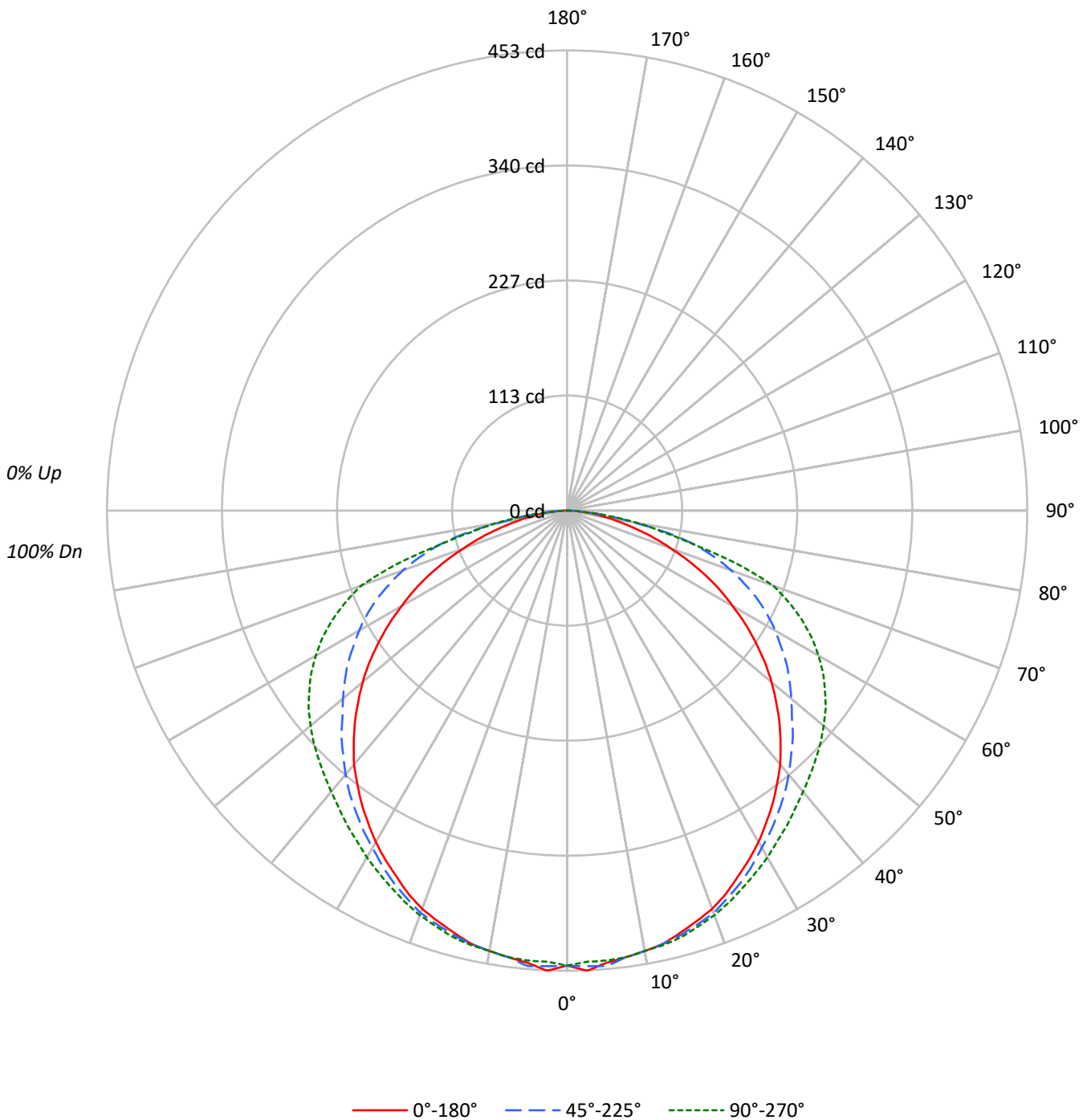
Input Watts (W): 15.996
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1205	1205	1205
5°	1207	1216	1201
10°	1203	1203	1203
15°	1199	1205	1211
20°	1195	1207	1214
25°	1180	1200	1216
30°	1171	1191	1225
35°	1158	1191	1241
40°	1146	1192	1269
45°	1125	1196	1317
50°	1100	1206	1380
55°	1064	1238	1454
60°	1013	1273	1538
65°	955	1318	1624
70°	853	1352	1697
75°	740	1355	1343
80°	628	1001	1086
85°	540	676	608



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.5	3.0
10°-20°	122.1	8.7
20°-30°	186.1	13.2
30°-40°	227.7	16.1
40°-50°	245.0	17.4
50°-60°	237.3	16.8
60°-70°	201.0	14.3
70°-80°	121.5	8.6
80°-90°	26.7	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°	350.7	24.9
0°-40°	578.4	41.0
0°-60°	1060.7	75.2
0°-90°	1410.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1410.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	448	448	448	448	448	
5°	447	447	450	448	445	42
15°	430	431	432	434	435	122
25°	398	400	404	407	410	183
35°	353	355	362	372	378	221
45°	296	301	314	334	346	228
55°	227	236	264	295	310	202
65°	150	166	207	240	255	148
75°	71	96	130	132	129	76
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°	447.9	447.9	447.9	447.9	447.9
2.5°	453.3	452.2	448.9	446.8	444.6
5°	446.8	446.8	450.0	447.9	444.6
7.5°	443.5	443.5	443.5	448.9	443.5
10°	440.2	441.3	440.2	444.6	440.2
12.5°	436.9	436.9	436.9	438.0	438.0
15°	430.3	431.4	432.5	433.6	434.7
17.5°	423.8	424.9	427.0	428.1	429.2
20°	417.2	418.3	421.6	421.6	423.8
22.5°	408.4	408.4	412.8	413.9	417.2
25°	397.5	399.7	404.1	407.3	409.5
27.5°	387.6	389.8	394.2	398.6	401.9
30°	376.7	378.9	383.2	389.8	394.2
32.5°	364.6	366.8	373.4	381.1	385.4
35°	352.6	354.8	362.4	372.3	377.8
37.5°	339.4	342.7	351.5	362.4	369.0
40°	326.3	329.6	339.4	351.5	361.3
42.5°	311.0	315.4	326.3	342.7	353.7
45°	295.6	301.1	314.3	334.0	346.0
47.5°	279.2	284.7	300.0	325.2	338.4
50°	262.8	269.4	288.0	315.4	329.6
52.5°	245.3	251.8	275.9	305.5	320.8
55°	226.7	236.5	263.9	294.6	309.9
57.5°	208.0	219.0	249.7	282.5	298.9
60°	188.3	201.5	236.5	269.4	285.8
62.5°	169.7	184.0	222.3	255.1	271.6
65°	150.0	166.4	207.0	239.8	255.1
67.5°	129.2	150.0	189.4	221.2	236.5
70°	108.4	132.5	171.9	201.5	215.7
72.5°	89.8	115.0	152.2	177.4	177.4
75°	71.2	96.4	130.3	132.5	129.2
77.5°	54.7	78.8	101.8	93.1	95.3
80°	40.5	60.2	64.6	67.9	70.1
82.5°	27.4	40.5	41.6	43.8	43.8
85°	17.5	20.8	21.9	20.8	19.7
87.5°	7.7	8.8	6.6	4.4	3.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)