

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: P277604

Luminaire Tested: **22CZ2-20HE-RDP-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277604
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-24)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-20HE-RDP-UNV-L92765-W2A1-U-3500K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1153.0 lumens
Efficiency: N/A
Efficacy: 74.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

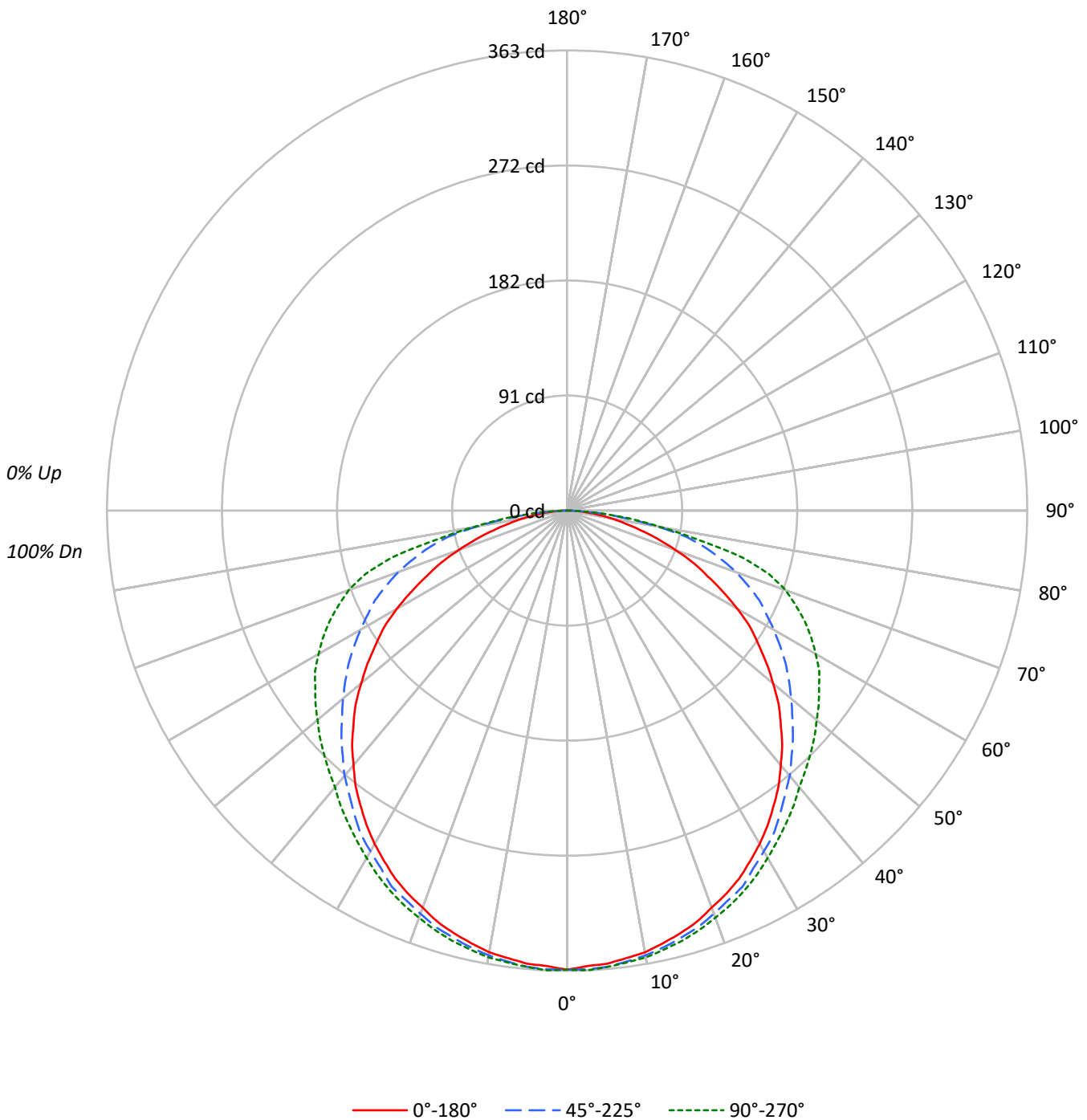
Input Watts (W): 15.531
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P277604

CATALOG NUMBER: 22CZ2-20HE-RDP-UNV-L92765-W2A1-U-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P277604

CATALOG NUMBER: 22CZ2-20HE-RDP-UNV-L92765-W2A1-U-3500K

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	98	94	105	100	96	92	96	92	89	92	89	86	88	86	84	82
2	97	88	81	75	95	86	80	74	83	77	72	80	75	71	76	72	69	67
3	88	77	68	61	86	75	67	61	72	65	60	70	64	59	67	62	58	55
4	80	68	59	51	78	66	58	51	64	56	50	61	55	50	59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35
7	63	49	40	33	61	48	39	33	47	39	33	45	38	33	44	37	33	31
8	59	45	36	30	57	44	35	30	43	35	29	41	34	29	40	34	29	27
9	55	41	32	27	53	40	32	27	39	32	26	38	31	26	37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	975	975	975
5°	969	976	976
10°	966	973	978
15°	962	971	978
20°	954	969	979
25°	952	972	982
30°	944	964	983
35°	933	961	989
40°	921	959	1001
45°	907	959	1033
50°	888	966	1076
55°	864	987	1138
60°	835	1013	1219
65°	777	1064	1318
70°	714	1114	1441
75°	626	1173	1490
80°	539	1117	1170
85°	472	812	889



TEST NUMBER: P277604

CATALOG NUMBER: 22CZ2-20HE-RDP-UNV-L92765-W2A1-U-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.3	3.0
10°-20°	98.4	8.5
20°-30°	150.1	13.0
30°-40°	183.2	15.9
40°-50°	195.9	17.0
50°-60°	189.1	16.4
60°-70°	162.8	14.1
70°-80°	110.1	9.6
80°-90°	29.1	2.5
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°	282.7	24.5
0°-40°	465.9	40.4
0°-60°	851.0	73.8
0°-90°	1153.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1153.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	362	362	362	362	362	
5°	359	360	361	361	361	34
15°	345	346	349	350	351	97
25°	321	322	327	329	331	148
35°	284	287	293	299	301	178
45°	238	243	252	265	271	184
55°	184	190	210	232	243	165
65°	122	134	167	193	207	121
75°	60	80	113	136	143	65
85°	15	21	26	27	29	17
90°	0	0	0	0	0	



TEST NUMBER: P277604

CATALOG NUMBER: 22CZ2-20HE-RDP-UNV-L92765-W2A1-U-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	362.2	362.2	362.2	362.2	362.2
2.5°	359.6	360.5	362.2	362.2	363.0
5°	358.8	359.6	361.3	361.3	361.3
7.5°	356.2	357.1	358.8	359.6	359.6
10°	353.7	354.5	356.2	357.1	357.9
12.5°	349.5	350.3	352.8	354.5	354.5
15°	345.2	346.1	348.6	350.3	351.2
17.5°	340.1	341.8	344.4	346.1	346.9
20°	333.3	335.0	338.4	341.0	341.8
22.5°	327.4	329.1	332.5	335.0	336.7
25°	320.6	322.3	327.4	329.1	330.8
27.5°	312.1	313.8	318.1	321.5	324.0
30°	303.7	305.3	310.4	314.7	316.4
32.5°	294.3	296.9	302.8	306.2	308.7
35°	284.1	286.7	292.6	298.6	301.1
37.5°	274.0	276.5	282.4	290.1	293.5
40°	262.1	265.5	273.1	283.3	285.0
42.5°	251.1	255.3	262.1	274.0	278.2
45°	238.3	242.6	251.9	264.6	271.4
47.5°	226.5	230.7	240.9	256.2	264.6
50°	212.0	218.0	230.7	248.5	257.0
52.5°	198.5	203.6	220.5	240.0	250.2
55°	184.1	190.0	210.4	231.6	242.6
57.5°	171.3	176.4	199.3	223.1	235.8
60°	155.2	162.0	188.3	213.7	226.5
62.5°	138.3	148.4	177.3	203.6	217.1
65°	122.1	134.0	167.1	193.4	207.0
67.5°	107.7	120.4	154.4	182.4	195.1
70°	90.8	106.9	141.6	168.8	183.2
72.5°	75.5	93.3	127.2	154.4	167.1
75°	60.2	79.7	112.8	135.7	143.3
77.5°	46.7	65.3	96.7	103.5	104.3
80°	34.8	51.7	72.1	72.9	75.5
82.5°	23.7	36.5	46.7	50.9	51.7
85°	15.3	21.2	26.3	27.1	28.8
87.5°	6.8	7.6	9.3	8.5	8.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)