

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: P277603

Luminaire Tested: **22CZ2-20HE-RDP-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277603
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-3000K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1098.0 lumens
Efficiency: N/A
Efficacy: 71.6 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

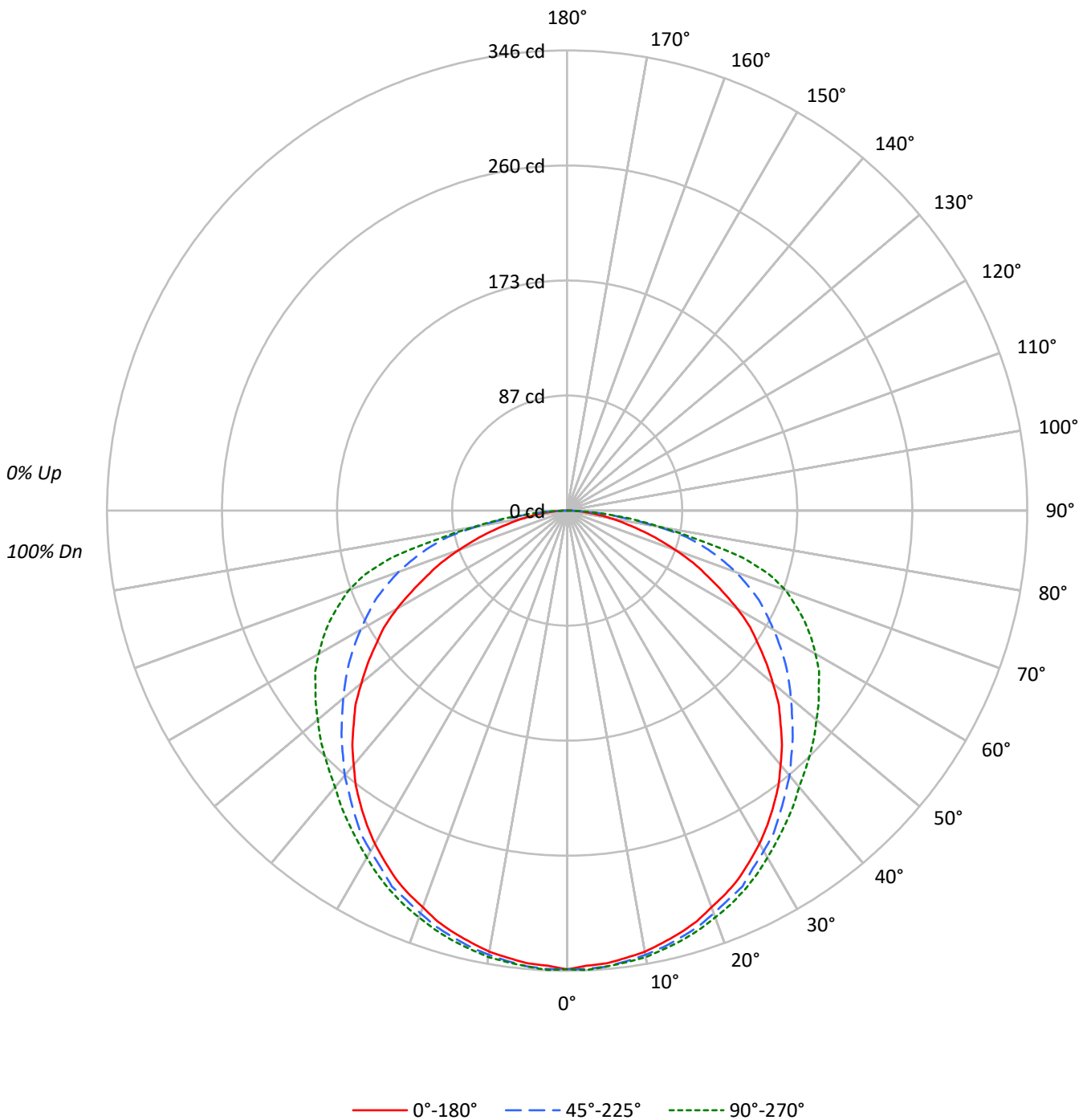
Input Watts (W): 15.345
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	108	103	98	94	105	100	96	92	96	92	89	92	89	86	88	86	84	82					82			
2	97	88	81	75	95	86	80	74	83	77	72	80	75	71	76	72	69	67					67			
3	88	77	68	61	86	75	67	61	72	65	60	70	64	59	67	62	58	55					55			
4	80	68	59	51	78	66	58	51	64	56	50	61	55	50	59	54	49	47					47			
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40					40			
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35					35			
7	63	49	40	33	61	48	39	33	47	39	33	45	38	33	44	37	33	31					31			
8	59	45	36	30	57	44	35	30	43	35	29	41	34	29	40	34	29	27					27			
9	55	41	32	27	53	40	32	27	39	32	26	38	31	26	37	31	26	24					24			
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22					22			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	928	928	928
5°	923	930	930
10°	920	927	932
15°	916	925	932
20°	909	923	932
25°	906	926	935
30°	899	919	936
35°	889	916	942
40°	877	914	953
45°	864	913	984
50°	845	920	1024
55°	822	940	1084
60°	795	965	1161
65°	741	1013	1255
70°	680	1061	1373
75°	596	1117	1419
80°	513	1065	1114
85°	448	772	849



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.6	3.0
10°-20°	93.7	8.5
20°-30°	142.9	13.0
30°-40°	174.5	15.9
40°-50°	186.6	17.0
50°-60°	180.1	16.4
60°-70°	155.0	14.1
70°-80°	104.9	9.6
80°-90°	27.7	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°	269.2	24.5
0°-40°	443.7	40.4
0°-60°	810.4	73.8
0°-90°	1098.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1098.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	345	345	345	345	345	
5°	342	342	344	344	344	32
15°	329	330	332	334	334	93
25°	305	307	312	313	315	141
35°	271	273	279	284	287	169
45°	227	231	240	252	258	175
55°	175	181	200	220	231	157
65°	116	128	159	184	197	116
75°	57	76	107	129	136	62
85°	14	20	25	26	28	16
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	344.9	344.9	344.9	344.9	344.9
2.5°	342.5	343.3	344.9	344.9	345.7
5°	341.7	342.5	344.1	344.1	344.1
7.5°	339.2	340.1	341.7	342.5	342.5
10°	336.8	337.6	339.2	340.1	340.9
12.5°	332.8	333.6	336.0	337.6	337.6
15°	328.7	329.6	332.0	333.6	334.4
17.5°	323.9	325.5	327.9	329.6	330.4
20°	317.4	319.1	322.3	324.7	325.5
22.5°	311.8	313.4	316.6	319.1	320.7
25°	305.3	306.9	311.8	313.4	315.0
27.5°	297.2	298.9	302.9	306.1	308.6
30°	289.2	290.8	295.6	299.7	301.3
32.5°	280.3	282.7	288.4	291.6	294.0
35°	270.6	273.0	278.7	284.3	286.7
37.5°	260.9	263.3	269.0	276.2	279.5
40°	249.6	252.8	260.1	269.8	271.4
42.5°	239.1	243.1	249.6	260.9	264.9
45°	227.0	231.0	239.9	252.0	258.5
47.5°	215.7	219.7	229.4	243.9	252.0
50°	201.9	207.6	219.7	236.7	244.7
52.5°	189.0	193.9	210.0	228.6	238.3
55°	175.3	180.9	200.3	220.5	231.0
57.5°	163.2	168.0	189.8	212.4	224.5
60°	147.8	154.3	179.3	203.5	215.7
62.5°	131.7	141.4	168.8	193.9	206.8
65°	116.3	127.6	159.1	184.2	197.1
67.5°	102.6	114.7	147.0	173.7	185.8
70°	86.4	101.8	134.9	160.7	174.5
72.5°	71.9	88.9	121.2	147.0	159.1
75°	57.3	75.9	107.4	129.2	136.5
77.5°	44.4	62.2	92.1	98.5	99.4
80°	33.1	49.3	68.7	69.5	71.9
82.5°	22.6	34.7	44.4	48.5	49.3
85°	14.5	20.2	25.0	25.8	27.5
87.5°	6.5	7.3	8.9	8.1	8.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)