

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: P277267

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277267
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-27)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-20HE-UNV-L92765-W2A1-U-3000K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1640.0 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

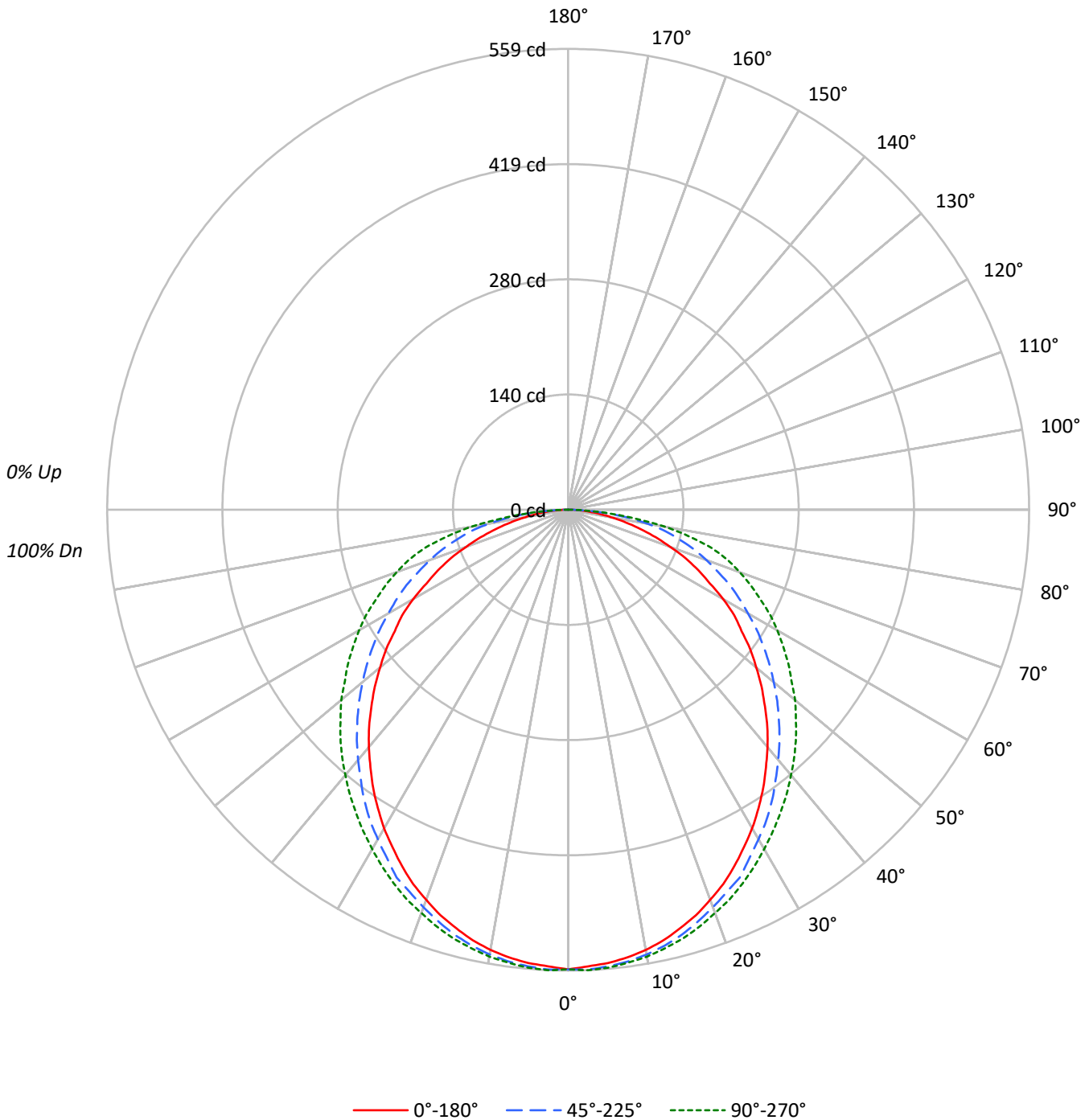
Input Watts (W): 15.345
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	101	96	93	96	93	90	92	90	87	89	86	84	82
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68
3	89	78	69	63	86	76	68	62	73	66	61	70	65	60	68	63	59	56
4	81	69	60	53	79	67	59	52	65	57	52	63	56	51	60	55	50	48
5	75	61	52	45	72	60	52	45	58	50	44	56	49	44	54	48	44	41
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31	42	35	30	41	35	30	28
9	56	42	34	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1500	1500	1500
5°	1491	1502	1506
10°	1482	1497	1504
15°	1464	1486	1500
20°	1442	1470	1491
25°	1416	1462	1485
30°	1387	1434	1477
35°	1355	1416	1474
40°	1321	1392	1477
45°	1284	1376	1486
50°	1247	1361	1503
55°	1204	1355	1529
60°	1168	1355	1576
65°	1110	1377	1634
70°	1035	1403	1740
75°	948	1451	1880
80°	826	1512	1850
85°	722	1346	1470



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.7	3.2
10°-20°	150.2	9.2
20°-30°	225.5	13.7
30°-40°	269.4	16.4
40°-50°	280.2	17.1
50°-60°	259.7	15.8
60°-70°	213.0	13.0
70°-80°	144.0	8.8
80°-90°	45.2	2.8
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°	428.4	26.1
0°-40°	697.9	42.6
0°-60°	1237.7	75.5
0°-90°	1640.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1640.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	558	558	558	558	558	
5°	552	553	556	557	558	52
15°	525	528	533	537	538	148
25°	477	481	492	498	500	220
35°	412	418	431	444	449	258
45°	337	344	362	382	391	260
55°	257	265	289	315	326	231
65°	174	184	216	244	257	172
75°	91	106	140	168	181	97
85°	23	32	44	48	48	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	557.6	557.6	557.6	557.6	557.6
2.5°	554.4	556.0	558.4	559.2	559.2
5°	552.0	552.8	556.0	556.8	557.6
7.5°	547.9	549.6	552.8	553.6	554.4
10°	542.3	543.9	547.9	549.6	550.4
12.5°	535.0	536.6	541.5	543.9	544.7
15°	525.4	527.8	533.4	536.6	538.3
17.5°	515.7	518.1	523.7	528.6	530.2
20°	503.6	509.2	513.2	519.7	520.5
22.5°	491.5	494.7	501.9	508.4	511.6
25°	476.9	481.0	492.3	497.9	500.3
27.5°	461.6	467.2	476.1	485.0	488.2
30°	446.3	450.3	461.6	472.1	475.3
32.5°	429.3	435.0	447.1	457.6	462.4
35°	412.4	418.0	430.9	443.8	448.7
37.5°	393.8	400.3	413.2	428.5	435.0
40°	376.1	380.9	396.2	414.8	420.4
42.5°	357.5	363.1	379.3	399.5	405.9
45°	337.3	343.8	361.5	382.5	390.6
47.5°	318.0	324.4	343.8	364.8	374.4
50°	297.8	305.8	325.2	349.4	359.1
52.5°	278.4	285.7	307.5	332.5	341.4
55°	256.6	264.7	288.9	314.7	326.0
57.5°	238.9	244.5	271.1	297.8	309.1
60°	217.1	224.3	251.8	280.0	292.9
62.5°	193.7	205.8	234.0	263.1	276.0
65°	174.3	184.0	216.3	244.5	256.6
67.5°	154.1	164.6	196.1	226.0	239.7
70°	131.5	145.3	178.3	208.2	221.1
72.5°	111.4	125.9	159.8	188.8	202.6
75°	91.2	106.5	139.6	167.9	180.8
77.5°	71.8	88.8	121.0	142.8	150.9
80°	53.3	69.4	97.6	113.0	119.4
82.5°	37.1	50.8	71.8	79.9	81.5
85°	23.4	32.3	43.6	48.4	47.6
87.5°	10.5	12.9	16.1	17.8	16.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)