

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: P277623

Luminaire Tested: **22CZ2-29HE-RDP-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277623
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: 22CZ2-29HE-RDP-UNV-L92765-W2A1-U-4000K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1570.0 lumens
Efficiency: N/A
Efficacy: 74.4 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

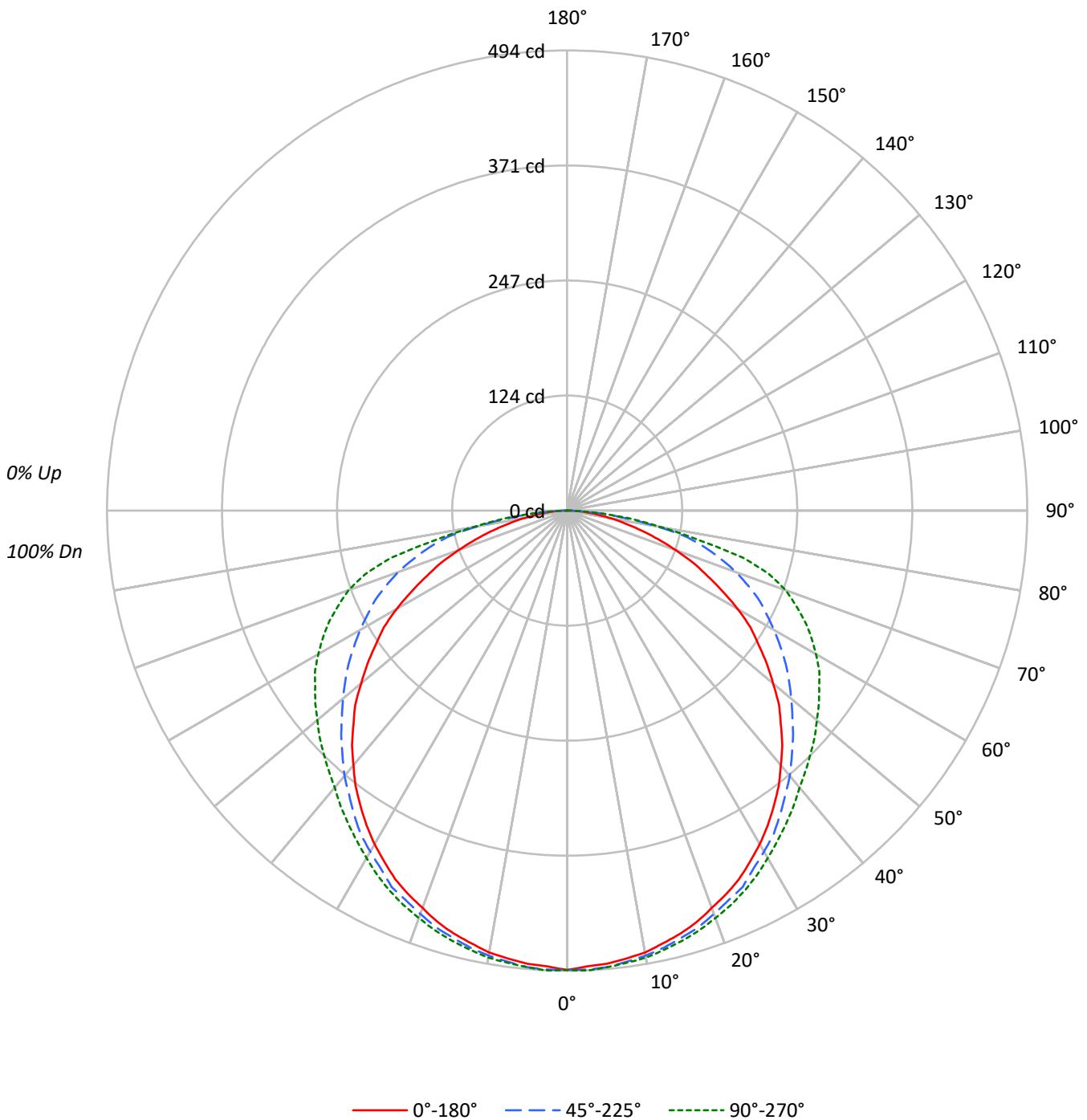
Input Watts (W): 21.111
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1327	1327	1327
5°	1320	1329	1329
10°	1316	1326	1332
15°	1310	1322	1332
20°	1300	1320	1333
25°	1296	1324	1337
30°	1285	1313	1339
35°	1271	1309	1347
40°	1254	1306	1363
45°	1235	1305	1407
50°	1209	1315	1465
55°	1176	1344	1550
60°	1138	1380	1660
65°	1059	1449	1794
70°	972	1518	1963
75°	853	1597	2030
80°	735	1522	1593
85°	642	1105	1213



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.6	3.0
10°-20°	133.9	8.5
20°-30°	204.3	13.0
30°-40°	249.5	15.9
40°-50°	266.8	17.0
50°-60°	257.5	16.4
60°-70°	221.7	14.1
70°-80°	150.0	9.6
80°-90°	39.6	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°	384.9	24.5
0°-40°	634.5	40.4
0°-60°	1158.8	73.8
0°-90°	1570.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1570.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	493	493	493	493	493	
5°	488	490	492	492	492	46
15°	470	471	475	477	478	133
25°	437	439	446	448	450	201
35°	387	390	398	406	410	242
45°	324	330	343	360	370	251
55°	251	259	286	315	330	225
65°	166	182	228	263	282	165
75°	82	109	154	185	195	88
85°	21	29	36	37	39	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	493.2	493.2	493.2	493.2	493.2
2.5°	489.7	490.9	493.2	493.2	494.3
5°	488.5	489.7	492.0	492.0	492.0
7.5°	485.1	486.2	488.5	489.7	489.7
10°	481.6	482.8	485.1	486.2	487.4
12.5°	475.8	477.0	480.5	482.8	482.8
15°	470.1	471.2	474.7	477.0	478.1
17.5°	463.1	465.4	468.9	471.2	472.4
20°	453.9	456.2	460.8	464.3	465.4
22.5°	445.8	448.1	452.7	456.2	458.5
25°	436.6	438.9	445.8	448.1	450.4
27.5°	425.0	427.3	433.1	437.7	441.2
30°	413.5	415.8	422.7	428.5	430.8
32.5°	400.8	404.2	412.3	416.9	420.4
35°	386.9	390.4	398.5	406.5	410.0
37.5°	373.0	376.5	384.6	395.0	399.6
40°	356.9	361.5	371.9	385.8	388.1
42.5°	341.9	347.6	356.9	373.0	378.8
45°	324.5	330.3	343.0	360.3	369.6
47.5°	308.4	314.1	328.0	348.8	360.3
50°	288.7	296.8	314.1	338.4	350.0
52.5°	270.3	277.2	300.3	326.9	340.7
55°	250.6	258.7	286.4	315.3	330.3
57.5°	233.3	240.2	271.4	303.8	321.1
60°	211.4	220.6	256.4	291.0	308.4
62.5°	188.3	202.1	241.4	277.2	295.7
65°	166.3	182.5	227.5	263.3	281.8
67.5°	146.7	164.0	210.2	248.3	265.6
70°	123.6	145.5	192.9	229.8	249.5
72.5°	102.8	127.0	173.2	210.2	227.5
75°	82.0	108.6	153.6	184.8	195.2
77.5°	63.5	88.9	131.7	140.9	142.1
80°	47.4	70.5	98.2	99.3	102.8
82.5°	32.3	49.7	63.5	69.3	70.5
85°	20.8	28.9	35.8	37.0	39.3
87.5°	9.2	10.4	12.7	11.5	11.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)