

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: P277634

Luminaire Tested: **22CZ2-34HE-RDP-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277634
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: 22CZ2-34HE-RDP-UNV-L92765-W2A1-U-5000K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1981.0 lumens
Efficiency: N/A
Efficacy: 75.5 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

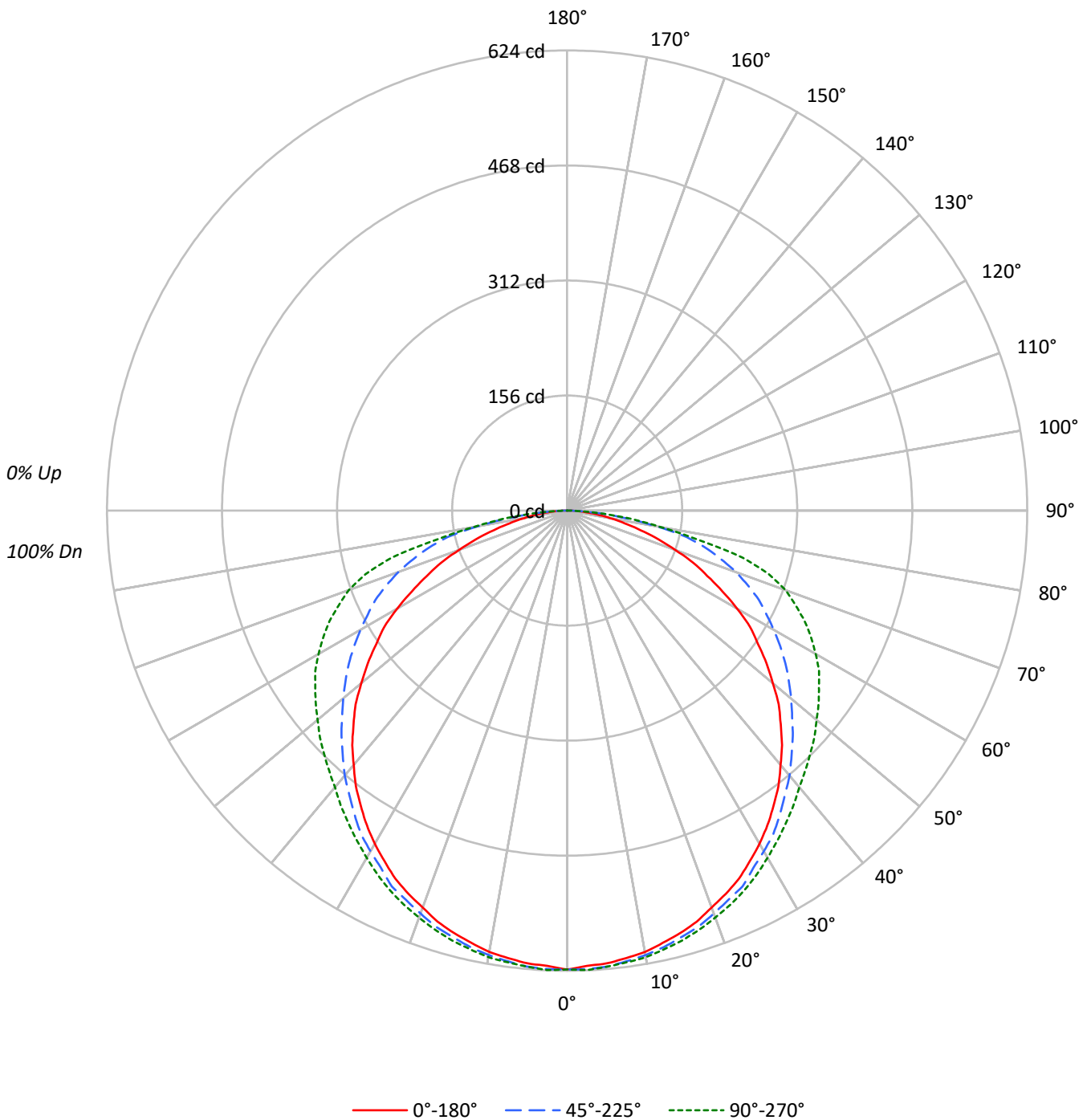
Input Watts (W): 26.226
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1675	1675	1675
5°	1665	1677	1677
10°	1661	1673	1680
15°	1652	1668	1681
20°	1640	1665	1682
25°	1636	1670	1687
30°	1621	1657	1689
35°	1604	1652	1699
40°	1582	1649	1720
45°	1558	1647	1775
50°	1525	1659	1849
55°	1483	1696	1955
60°	1435	1741	2094
65°	1337	1828	2264
70°	1227	1915	2477
75°	1076	2015	2561
80°	925	1920	2010
85°	809	1396	1528



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.9	3.0
10°-20°	169.0	8.5
20°-30°	257.8	13.0
30°-40°	314.8	15.9
40°-50°	336.6	17.0
50°-60°	324.9	16.4
60°-70°	279.7	14.1
70°-80°	189.2	9.6
80°-90°	49.9	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°	485.7	24.5
0°-40°	800.6	40.4
0°-60°	1462.1	73.8
0°-90°	1981.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1981.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	622	622	622	622	622	
5°	616	618	621	621	621	59
15°	593	595	599	602	603	167
25°	551	554	562	565	568	254
35°	488	493	503	513	517	305
45°	410	417	433	455	466	316
55°	316	326	361	398	417	283
65°	210	230	287	332	356	209
75°	104	137	194	233	246	111
85°	26	36	45	47	50	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	622.3	622.3	622.3	622.3	622.3
2.5°	617.9	619.4	622.3	622.3	623.7
5°	616.4	617.9	620.8	620.8	620.8
7.5°	612.1	613.5	616.4	617.9	617.9
10°	607.7	609.2	612.1	613.5	615.0
12.5°	600.4	601.9	606.2	609.2	609.2
15°	593.1	594.6	598.9	601.9	603.3
17.5°	584.4	587.3	591.7	594.6	596.0
20°	572.7	575.6	581.5	585.8	587.3
22.5°	562.5	565.4	571.3	575.6	578.5
25°	550.9	553.8	562.5	565.4	568.3
27.5°	536.3	539.2	546.5	552.3	556.7
30°	521.7	524.6	533.4	540.7	543.6
32.5°	505.7	510.1	520.3	526.1	530.5
35°	488.2	492.6	502.8	513.0	517.3
37.5°	470.7	475.1	485.3	498.4	504.2
40°	450.3	456.1	469.3	486.7	489.7
42.5°	431.4	438.6	450.3	470.7	478.0
45°	409.5	416.8	432.8	454.7	466.3
47.5°	389.1	396.4	413.9	440.1	454.7
50°	364.3	374.5	396.4	427.0	441.6
52.5°	341.0	349.8	378.9	412.4	429.9
55°	316.2	326.4	361.4	397.8	416.8
57.5°	294.4	303.1	342.5	383.3	405.1
60°	266.7	278.3	323.5	367.2	389.1
62.5°	237.5	255.0	304.6	349.8	373.1
65°	209.9	230.3	287.1	332.3	355.6
67.5°	185.1	206.9	265.2	313.3	335.2
70°	155.9	183.6	243.4	290.0	314.8
72.5°	129.7	160.3	218.6	265.2	287.1
75°	103.5	137.0	193.8	233.2	246.3
77.5°	80.2	112.2	166.1	177.8	179.2
80°	59.7	88.9	123.9	125.3	129.7
82.5°	40.8	62.7	80.2	87.4	88.9
85°	26.2	36.4	45.2	46.6	49.5
87.5°	11.7	13.1	16.0	14.6	14.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)