

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: P277581

Luminaire Tested: **22CZ2-34HE-RDP-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277581
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-L82765-W2A1-U-5500K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2229.0 lumens
Efficiency: N/A
Efficacy: 84.4 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

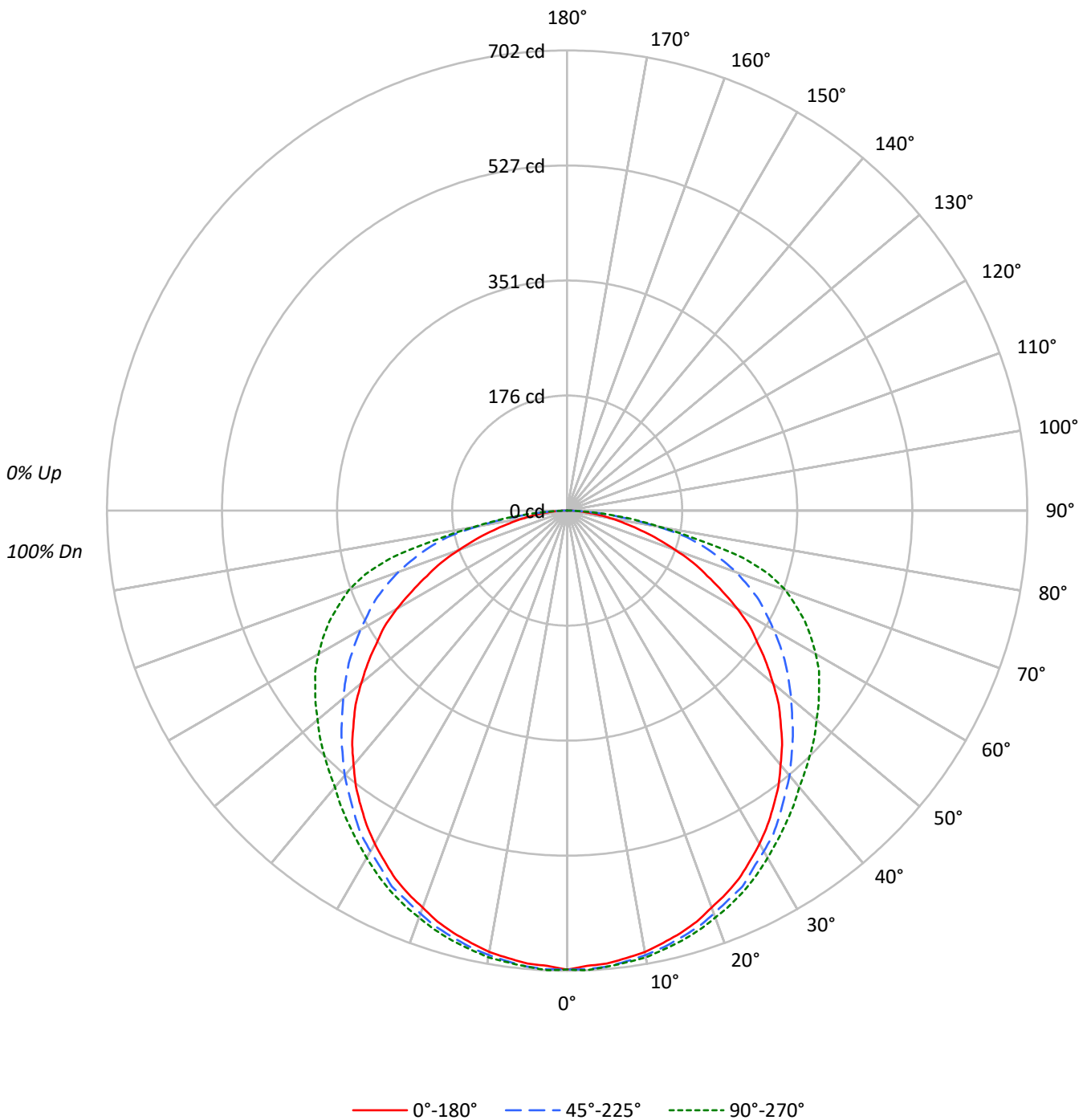
Input Watts (W): 26.412
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1884	1884	1884
5°	1874	1887	1887
10°	1868	1882	1891
15°	1859	1877	1891
20°	1845	1874	1892
25°	1840	1879	1899
30°	1824	1865	1900
35°	1804	1858	1912
40°	1780	1855	1936
45°	1754	1853	1997
50°	1716	1867	2080
55°	1669	1908	2200
60°	1615	1959	2356
65°	1503	2057	2548
70°	1381	2154	2787
75°	1210	2268	2881
80°	1041	2160	2261
85°	911	1568	1723



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.2	3.0
10°-20°	190.2	8.5
20°-30°	290.1	13.0
30°-40°	354.2	15.9
40°-50°	378.8	17.0
50°-60°	365.6	16.4
60°-70°	314.7	14.1
70°-80°	212.9	9.6
80°-90°	56.2	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°	546.5	24.5
0°-40°	900.8	40.4
0°-60°	1645.1	73.8
0°-90°	2229.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2229.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	700	700	700	700	700	
5°	694	695	698	698	698	66
15°	667	669	674	677	679	188
25°	620	623	633	636	640	285
35°	549	554	566	577	582	344
45°	461	469	487	512	525	356
55°	356	367	407	448	469	319
65°	236	259	323	374	400	235
75°	116	154	218	262	277	125
85°	30	41	51	52	56	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	700.2	700.2	700.2	700.2	700.2
2.5°	695.2	696.9	700.2	700.2	701.8
5°	693.6	695.2	698.5	698.5	698.5
7.5°	688.7	690.3	693.6	695.2	695.2
10°	683.8	685.4	688.7	690.3	692.0
12.5°	675.6	677.2	682.1	685.4	685.4
15°	667.4	669.0	673.9	677.2	678.9
17.5°	657.5	660.8	665.7	669.0	670.7
20°	644.4	647.7	654.3	659.2	660.8
22.5°	632.9	636.2	642.8	647.7	651.0
25°	619.8	623.1	632.9	636.2	639.5
27.5°	603.4	606.7	614.9	621.5	626.4
30°	587.0	590.3	600.1	608.3	611.6
32.5°	569.0	573.9	585.4	591.9	596.9
35°	549.3	554.2	565.7	577.2	582.1
37.5°	529.6	534.6	546.0	560.8	567.3
40°	506.7	513.2	528.0	547.7	551.0
42.5°	485.4	493.6	506.7	529.6	537.8
45°	460.8	469.0	487.0	511.6	524.7
47.5°	437.8	446.0	465.7	495.2	511.6
50°	409.9	421.4	446.0	480.4	496.8
52.5°	383.7	393.5	426.3	464.0	483.7
55°	355.8	367.3	406.7	447.6	469.0
57.5°	331.2	341.1	385.3	431.3	455.8
60°	300.1	313.2	364.0	413.2	437.8
62.5°	267.3	287.0	342.7	393.5	419.8
65°	236.1	259.1	323.0	373.9	400.1
67.5°	208.2	232.8	298.4	352.5	377.1
70°	175.5	206.6	273.8	326.3	354.2
72.5°	145.9	180.4	246.0	298.4	323.0
75°	116.4	154.1	218.1	262.4	277.1
77.5°	90.2	126.3	186.9	200.0	201.7
80°	67.2	100.0	139.4	141.0	145.9
82.5°	45.9	70.5	90.2	98.4	100.0
85°	29.5	41.0	50.8	52.5	55.8
87.5°	13.1	14.8	18.0	16.4	16.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)