

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: P277642

Luminaire Tested: **22CZ2-39HE-RDP-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277642
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: 22CZ2-39HE-RDP-UNV-L92765-W2A1-U-4500K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2226.0 lumens
Efficiency: N/A
Efficacy: 72.5 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

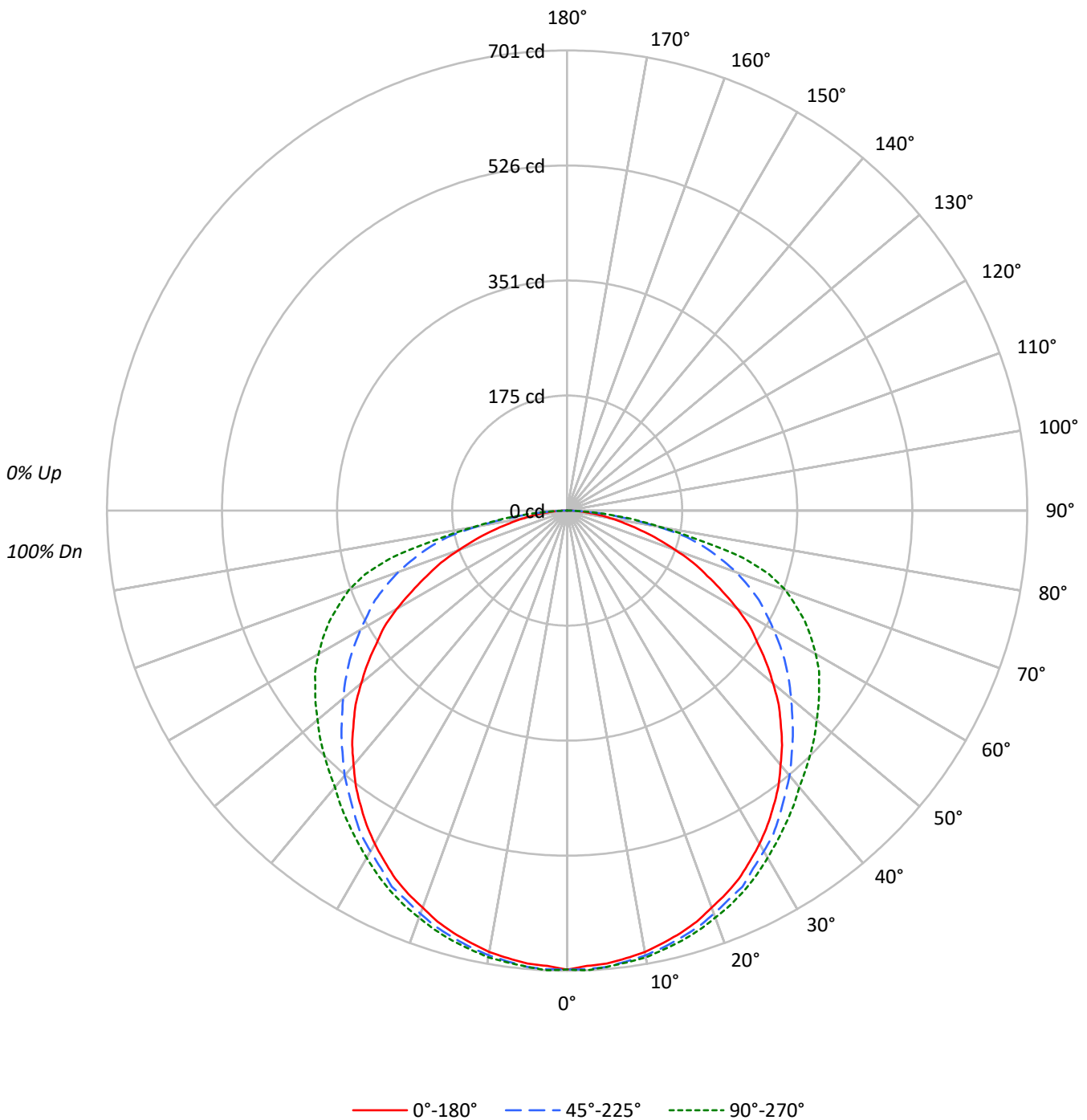
Input Watts (W): 30.69
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1882	1882	1882
5°	1871	1884	1884
10°	1866	1879	1888
15°	1857	1875	1889
20°	1843	1871	1890
25°	1838	1877	1896
30°	1821	1862	1898
35°	1802	1856	1910
40°	1777	1852	1933
45°	1751	1851	1994
50°	1714	1865	2077
55°	1667	1905	2197
60°	1613	1956	2353
65°	1501	2054	2544
70°	1378	2152	2783
75°	1209	2264	2877
80°	1040	2157	2258
85°	911	1568	1720



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.1	3.0
10°-20°	189.9	8.5
20°-30°	289.7	13.0
30°-40°	353.8	15.9
40°-50°	378.3	17.0
50°-60°	365.1	16.4
60°-70°	314.3	14.1
70°-80°	212.6	9.6
80°-90°	56.1	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°	545.8	24.5
0°-40°	899.6	40.4
0°-60°	1642.9	73.8
0°-90°	2226.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2226.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	699	699	699	699	699	
5°	693	694	698	698	698	66
15°	666	668	673	676	678	188
25°	619	622	632	635	639	285
35°	549	554	565	576	581	343
45°	460	468	486	511	524	355
55°	355	367	406	447	468	318
65°	236	259	323	373	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°	699.2	699.2	699.2	699.2	699.2
2.5°	694.3	696.0	699.2	699.2	700.9
5°	692.7	694.3	697.6	697.6	697.6
7.5°	687.8	689.4	692.7	694.3	694.3
10°	682.9	684.5	687.8	689.4	691.0
12.5°	674.7	676.3	681.2	684.5	684.5
15°	666.5	668.1	673.0	676.3	677.9
17.5°	656.6	659.9	664.8	668.1	669.7
20°	643.5	646.8	653.4	658.3	659.9
22.5°	632.1	635.4	641.9	646.8	650.1
25°	619.0	622.3	632.1	635.4	638.6
27.5°	602.6	605.9	614.1	620.6	625.5
30°	586.2	589.5	599.3	607.5	610.8
32.5°	568.2	573.1	584.6	591.1	596.1
35°	548.6	553.5	564.9	576.4	581.3
37.5°	528.9	533.8	545.3	560.0	566.6
40°	506.0	512.5	527.3	546.9	550.2
42.5°	484.7	492.9	506.0	528.9	537.1
45°	460.1	468.3	486.3	510.9	524.0
47.5°	437.2	445.4	465.1	494.5	510.9
50°	409.4	420.8	445.4	479.8	496.2
52.5°	383.2	393.0	425.8	463.4	483.1
55°	355.3	366.8	406.1	447.0	468.3
57.5°	330.8	340.6	384.8	430.7	455.2
60°	299.7	312.8	363.5	412.7	437.2
62.5°	266.9	286.6	342.2	393.0	419.2
65°	235.8	258.7	322.6	373.4	399.6
67.5°	208.0	232.5	298.0	352.1	376.6
70°	175.2	206.3	273.5	325.9	353.7
72.5°	145.7	180.1	245.6	298.0	322.6
75°	116.3	153.9	217.8	262.0	276.7
77.5°	90.1	126.1	186.7	199.8	201.4
80°	67.1	99.9	139.2	140.8	145.7
82.5°	45.9	70.4	90.1	98.3	99.9
85°	29.5	40.9	50.8	52.4	55.7
87.5°	13.1	14.7	18.0	16.4	16.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)