

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: P277588

Luminaire Tested: **22CZ2-39HE-RDP-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277588
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-L82765-W2A1-U-4500K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2495.0 lumens
Efficiency: N/A
Efficacy: 81.3 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

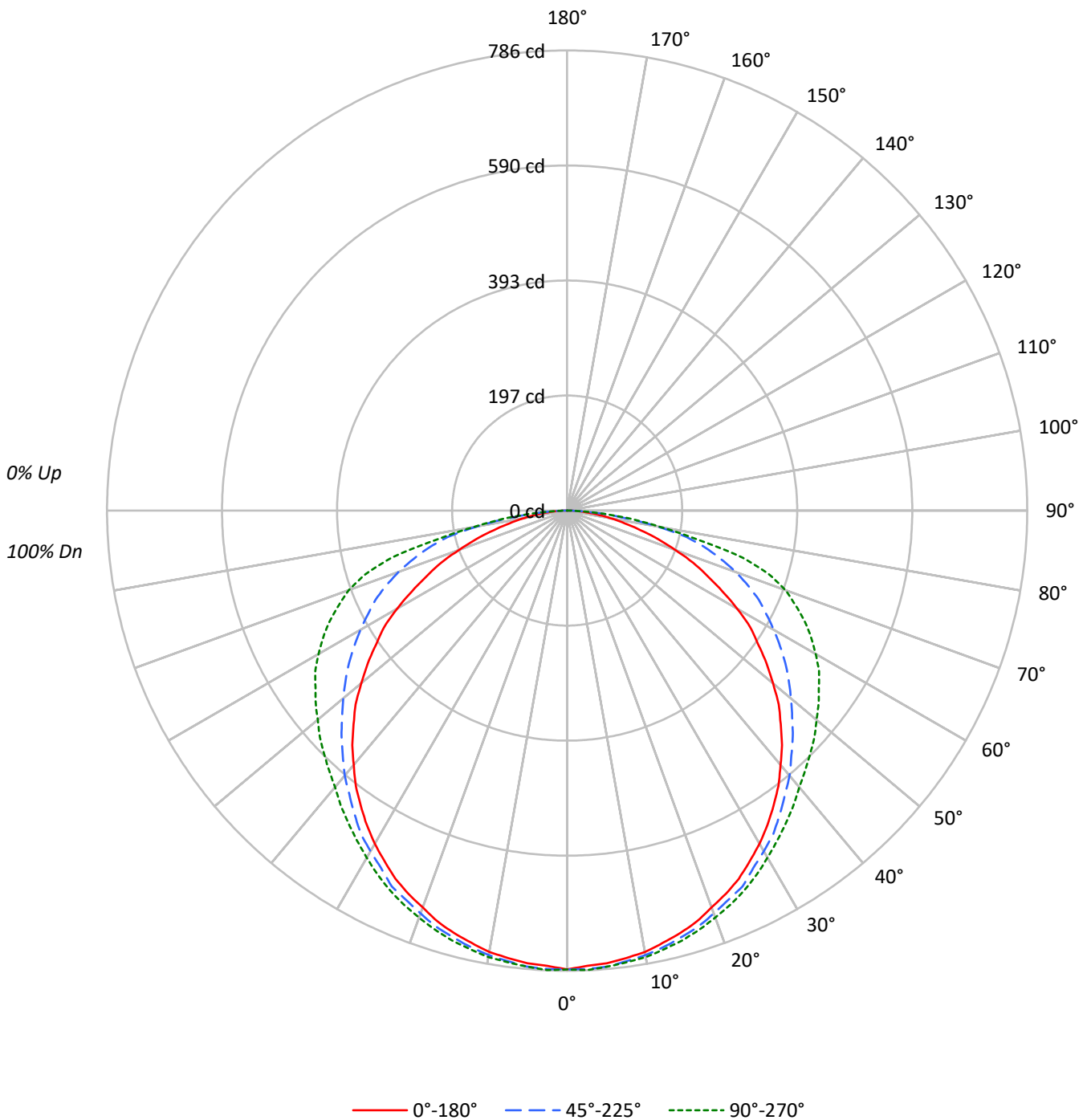
Input Watts (W): 30.69
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2109	2109	2109
5°	2097	2112	2112
10°	2091	2106	2116
15°	2081	2102	2117
20°	2066	2097	2118
25°	2060	2104	2125
30°	2042	2087	2127
35°	2020	2080	2141
40°	1992	2076	2166
45°	1963	2074	2235
50°	1921	2090	2328
55°	1869	2136	2463
60°	1808	2193	2638
65°	1683	2302	2851
70°	1545	2412	3120
75°	1355	2538	3225
80°	1167	2417	2532
85°	1019	1757	1927



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.1	3.0
10°-20°	212.9	8.5
20°-30°	324.8	13.0
30°-40°	396.5	15.9
40°-50°	424.0	17.0
50°-60°	409.2	16.4
60°-70°	352.3	14.1
70°-80°	238.3	9.6
80°-90°	62.9	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°	611.7	24.5
0°-40°	1008.3	40.4
0°-60°	1841.5	73.8
0°-90°	2495.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2495.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	784	784	784	784	784	
5°	776	778	782	782	782	74
15°	747	749	754	758	760	211
25°	694	698	708	712	716	319
35°	615	620	633	646	652	385
45°	516	525	545	573	587	398
55°	398	411	455	501	525	357
65°	264	290	362	418	448	263
75°	130	172	244	294	310	140
85°	33	46	57	59	62	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	783.7	783.7	783.7	783.7	783.7
2.5°	778.2	780.1	783.7	783.7	785.6
5°	776.4	778.2	781.9	781.9	781.9
7.5°	770.9	772.7	776.4	778.2	778.2
10°	765.4	767.2	770.9	772.7	774.5
12.5°	756.2	758.0	763.5	767.2	767.2
15°	747.0	748.9	754.4	758.0	759.9
17.5°	736.0	739.7	745.2	748.9	750.7
20°	721.3	725.0	732.3	737.8	739.7
22.5°	708.5	712.1	719.5	725.0	728.7
25°	693.8	697.5	708.5	712.1	715.8
27.5°	675.4	679.1	688.3	695.6	701.1
30°	657.1	660.8	671.8	680.9	684.6
32.5°	636.9	642.4	655.2	662.6	668.1
35°	614.9	620.4	633.2	646.1	651.6
37.5°	592.8	598.3	611.2	627.7	635.1
40°	567.1	574.5	591.0	613.0	616.7
42.5°	543.3	552.5	567.1	592.8	602.0
45°	515.8	524.9	545.1	572.7	587.3
47.5°	490.1	499.2	521.3	554.3	572.7
50°	458.9	471.7	499.2	537.8	556.1
52.5°	429.5	440.5	477.2	519.4	541.4
55°	398.3	411.1	455.2	501.1	524.9
57.5°	370.8	381.8	431.3	482.7	510.2
60°	335.9	350.6	407.5	462.5	490.1
62.5°	299.2	321.2	383.6	440.5	469.9
65°	264.3	290.0	361.6	418.5	447.8
67.5°	233.1	260.6	334.0	394.6	422.1
70°	196.4	231.3	306.5	365.2	396.5
72.5°	163.4	201.9	275.3	334.0	361.6
75°	130.3	172.5	244.1	293.7	310.2
77.5°	100.9	141.3	209.2	223.9	225.8
80°	75.3	112.0	156.0	157.8	163.4
82.5°	51.4	78.9	100.9	110.1	112.0
85°	33.0	45.9	56.9	58.7	62.4
87.5°	14.7	16.5	20.2	18.4	18.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)