

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: P277511

Luminaire Tested: **22CZ2-39HE-RDP-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277511
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-L83050-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: 2604.0 lumens
Efficiency: N/A
Efficacy: 82.4 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

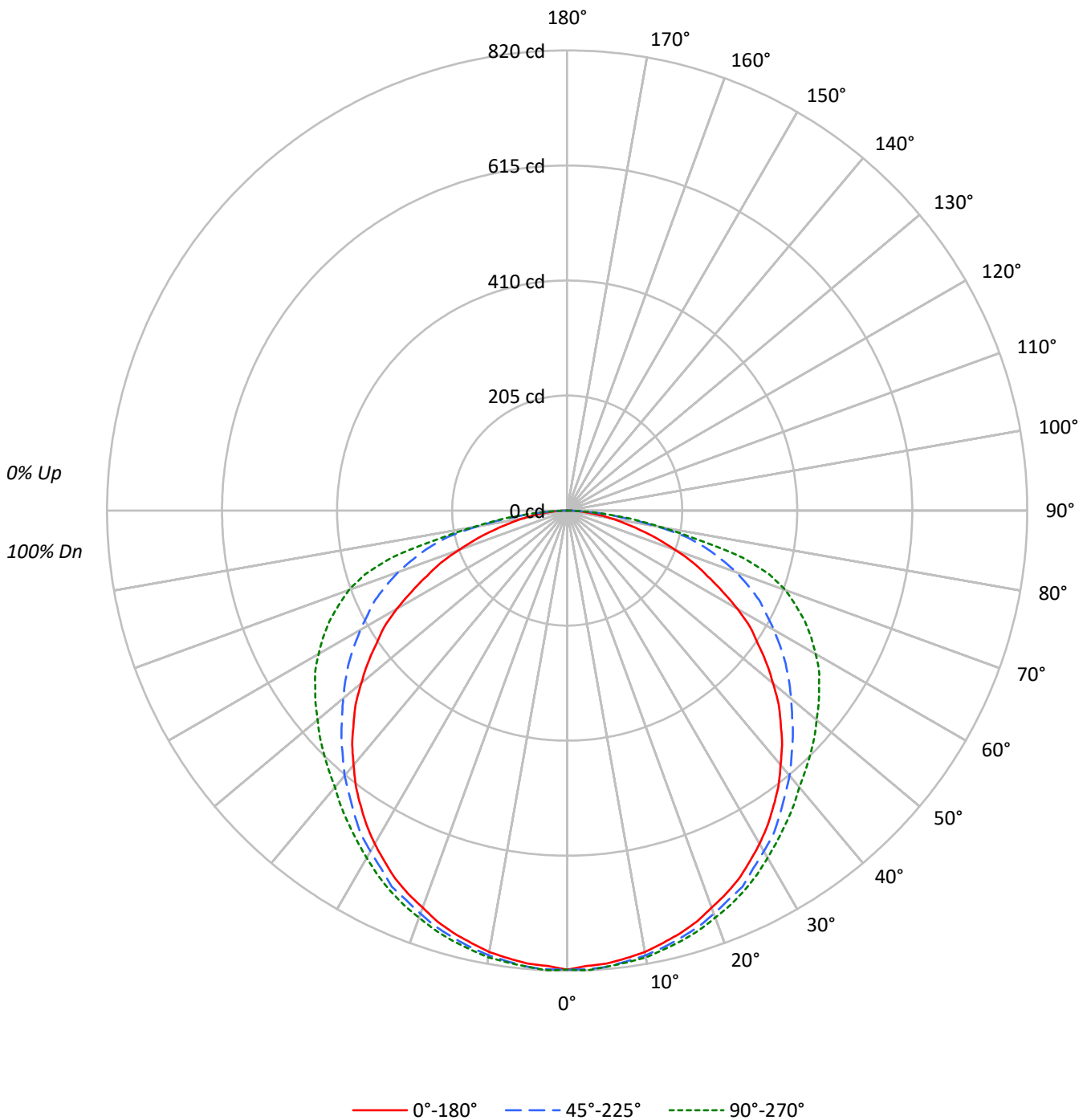
Input Watts (W): 31.62
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2201	2201	2201
5°	2189	2204	2204
10°	2183	2199	2209
15°	2172	2193	2210
20°	2156	2189	2211
25°	2150	2195	2218
30°	2131	2179	2220
35°	2108	2171	2234
40°	2079	2167	2261
45°	2049	2165	2333
50°	2005	2181	2430
55°	1950	2229	2571
60°	1887	2289	2753
65°	1756	2403	2976
70°	1613	2517	3256
75°	1414	2649	3366
80°	1216	2523	2642
85°	1065	1834	2010



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.4	3.0
10°-20°	222.2	8.5
20°-30°	338.9	13.0
30°-40°	413.9	15.9
40°-50°	442.5	17.0
50°-60°	427.1	16.4
60°-70°	367.7	14.1
70°-80°	248.8	9.6
80°-90°	65.6	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°	638.5	24.5
0°-40°	1052.3	40.4
0°-60°	1921.9	73.8
0°-90°	2604.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2604.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	818	818	818	818	818	
5°	810	812	816	816	816	77
15°	780	782	787	791	793	220
25°	724	728	739	743	747	333
35°	642	648	661	674	680	402
45°	538	548	569	598	613	416
55°	416	429	475	523	548	373
65°	276	303	377	437	467	274
75°	136	180	255	306	324	146
85°	34	48	59	61	65	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	818.0	818.0	818.0	818.0	818.0
2.5°	812.2	814.1	818.0	818.0	819.9
5°	810.3	812.2	816.0	816.0	816.0
7.5°	804.6	806.5	810.3	812.2	812.2
10°	798.8	800.7	804.6	806.5	808.4
12.5°	789.2	791.1	796.9	800.7	800.7
15°	779.6	781.6	787.3	791.1	793.1
17.5°	768.2	772.0	777.7	781.6	783.5
20°	752.8	756.7	764.3	770.1	772.0
22.5°	739.4	743.3	750.9	756.7	760.5
25°	724.1	727.9	739.4	743.3	747.1
27.5°	704.9	708.8	718.4	726.0	731.8
30°	685.8	689.6	701.1	710.7	714.5
32.5°	664.7	670.5	683.9	691.5	697.3
35°	641.7	647.5	660.9	674.3	680.0
37.5°	618.7	624.5	637.9	655.1	662.8
40°	591.9	599.6	616.8	639.8	643.6
42.5°	567.0	576.6	591.9	618.7	628.3
45°	538.3	547.9	568.9	597.7	613.0
47.5°	511.5	521.0	544.0	578.5	597.7
50°	478.9	492.3	521.0	561.3	580.4
52.5°	448.3	459.7	498.1	542.1	565.1
55°	415.7	429.1	475.1	523.0	547.9
57.5°	387.0	398.4	450.2	503.8	532.5
60°	350.6	365.9	425.3	482.7	511.5
62.5°	312.2	335.2	400.4	459.7	490.4
65°	275.8	302.7	377.4	436.8	467.4
67.5°	243.3	272.0	348.6	411.9	440.6
70°	205.0	241.4	319.9	381.2	413.8
72.5°	170.5	210.7	287.3	348.6	377.4
75°	136.0	180.1	254.8	306.5	323.7
77.5°	105.4	147.5	218.4	233.7	235.6
80°	78.5	116.9	162.8	164.7	170.5
82.5°	53.6	82.4	105.4	114.9	116.9
85°	34.5	47.9	59.4	61.3	65.1
87.5°	15.3	17.2	21.1	19.2	19.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)