

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: P277591

Luminaire Tested: **22CZ2-39HE-RDP-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277591
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-5700K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2561.0 lumens
Efficiency: N/A
Efficacy: 82.7 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

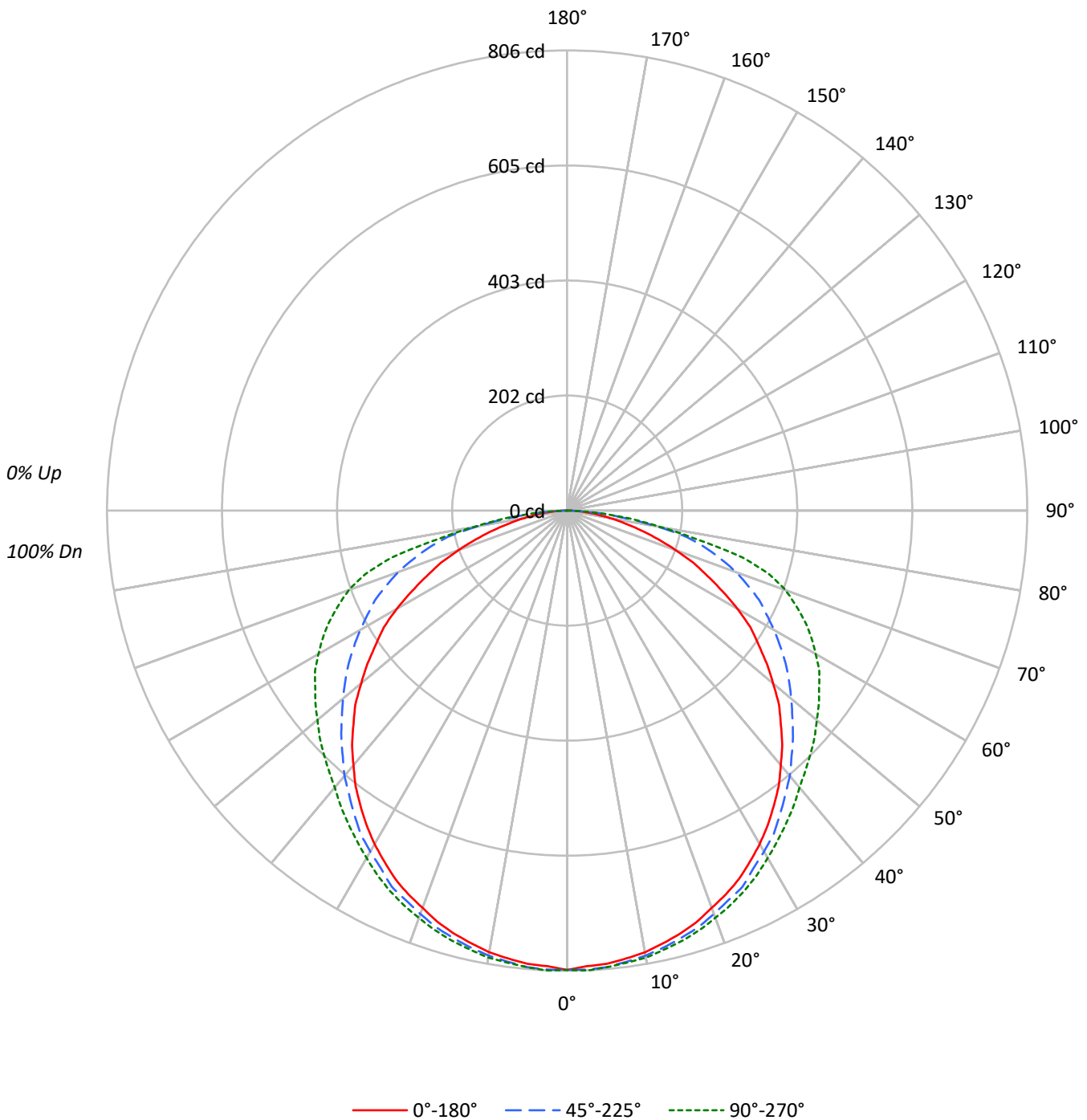
Input Watts (W): 30.969
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2165	2165	2165
5°	2153	2168	2168
10°	2147	2162	2172
15°	2136	2157	2173
20°	2120	2153	2174
25°	2114	2159	2181
30°	2096	2142	2183
35°	2073	2135	2197
40°	2045	2131	2224
45°	2015	2129	2294
50°	1972	2145	2390
55°	1918	2192	2528
60°	1856	2251	2707
65°	1727	2363	2927
70°	1586	2475	3201
75°	1391	2606	3310
80°	1196	2481	2599
85°	1047	1803	1979



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.1	3.0
10°-20°	218.5	8.5
20°-30°	333.3	13.0
30°-40°	407.0	15.9
40°-50°	435.2	17.0
50°-60°	420.1	16.4
60°-70°	361.6	14.1
70°-80°	244.6	9.6
80°-90°	64.5	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°	627.9	24.5
0°-40°	1035.0	40.4
0°-60°	1890.2	73.8
0°-90°	2561.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2561.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	804	804	804	804	804	
5°	797	799	803	803	803	76
15°	767	769	774	778	780	216
25°	712	716	727	731	735	328
35°	631	637	650	663	669	395
45°	529	539	560	588	603	409
55°	409	422	467	514	539	366
65°	271	298	371	430	460	270
75°	134	177	251	301	318	144
85°	34	47	58	60	64	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	804.5	804.5	804.5	804.5	804.5
2.5°	798.8	800.7	804.5	804.5	806.3
5°	796.9	798.8	802.6	802.6	802.6
7.5°	791.3	793.2	796.9	798.8	798.8
10°	785.6	787.5	791.3	793.2	795.0
12.5°	776.2	778.1	783.7	787.5	787.5
15°	766.8	768.7	774.3	778.1	780.0
17.5°	755.5	759.2	764.9	768.7	770.5
20°	740.4	744.2	751.7	757.4	759.2
22.5°	727.2	731.0	738.5	744.2	747.9
25°	712.1	715.9	727.2	731.0	734.7
27.5°	693.3	697.1	706.5	714.0	719.7
30°	674.5	678.2	689.5	699.0	702.7
32.5°	653.7	659.4	672.6	680.1	685.8
35°	631.1	636.8	650.0	663.2	668.8
37.5°	608.5	614.2	627.4	644.3	651.9
40°	582.1	589.7	606.6	629.2	633.0
42.5°	557.7	567.1	582.1	608.5	617.9
45°	529.4	538.8	559.5	587.8	602.9
47.5°	503.0	512.4	535.0	569.0	587.8
50°	471.0	484.2	512.4	552.0	570.8
52.5°	440.8	452.2	489.8	533.2	555.8
55°	408.8	422.0	467.2	514.3	538.8
57.5°	380.6	391.9	442.7	495.5	523.7
60°	344.8	359.8	418.2	474.8	503.0
62.5°	307.1	329.7	393.7	452.2	482.3
65°	271.3	297.7	371.1	429.5	459.7
67.5°	239.3	267.5	342.9	405.1	433.3
70°	201.6	237.4	314.6	374.9	406.9
72.5°	167.7	207.2	282.6	342.9	371.1
75°	133.8	177.1	250.6	301.4	318.4
77.5°	103.6	145.1	214.8	229.8	231.7
80°	77.2	114.9	160.1	162.0	167.7
82.5°	52.8	81.0	103.6	113.0	114.9
85°	33.9	47.1	58.4	60.3	64.1
87.5°	15.1	17.0	20.7	18.8	18.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)