

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: P277509

Luminaire Tested: **22CZ2-39HE-RDP-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277509
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-3500K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2456.0 lumens
Efficiency: N/A
Efficacy: 81.5 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

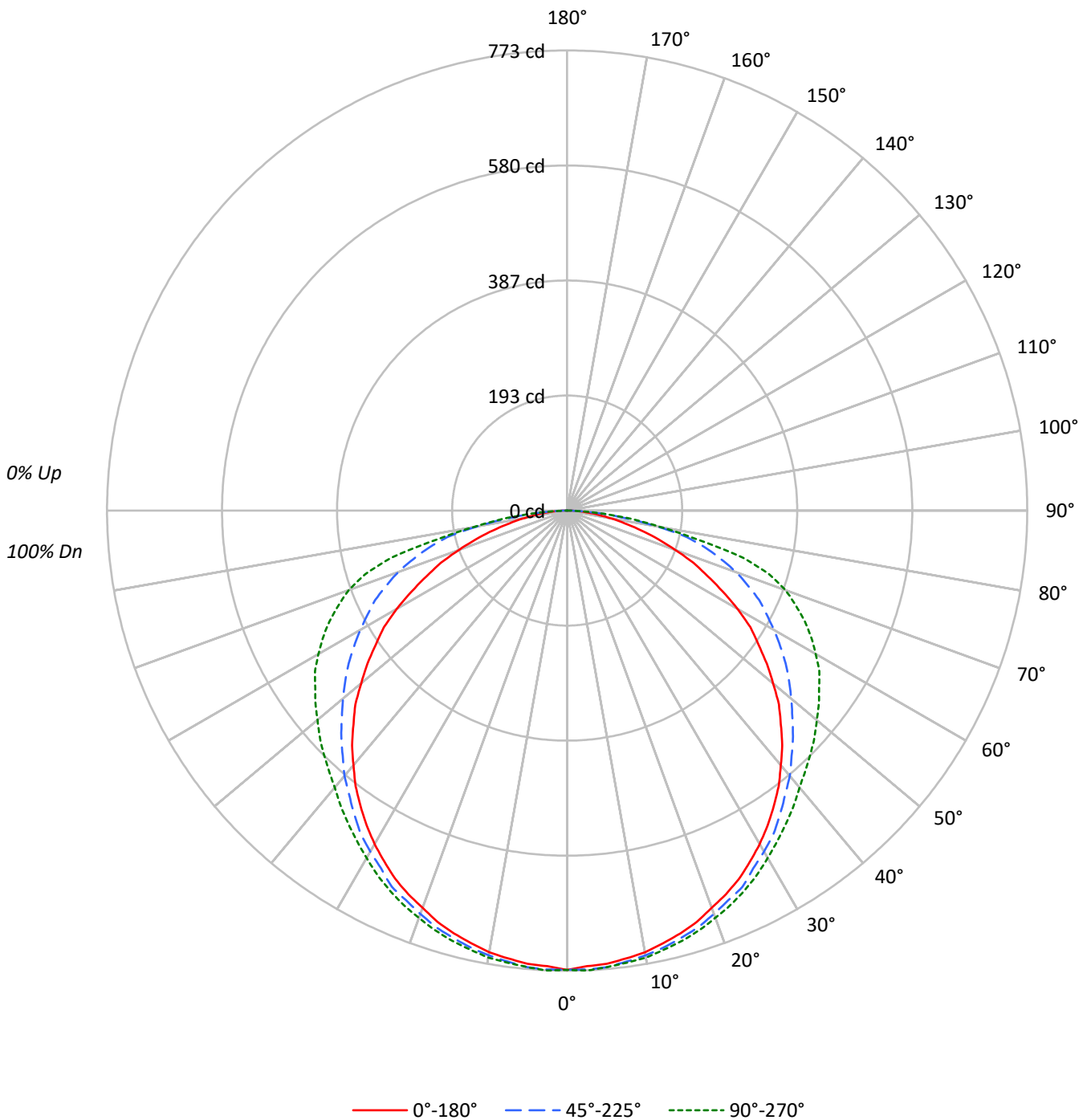
Input Watts (W): 30.132
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	108	103	98	94	105	100	96	92	96	92	89	92	89	86	88	86	84	82					82			
2	97	88	81	75	95	86	80	74	83	77	72	80	75	71	76	72	69	67					67			
3	88	77	68	61	86	75	67	61	72	65	60	70	64	59	67	62	58	55					55			
4	80	68	59	51	78	66	58	51	64	56	50	61	55	50	59	54	49	47					47			
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40					40			
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35					35			
7	63	49	40	33	61	48	39	33	47	39	33	45	38	33	44	37	33	31					31			
8	59	45	36	30	57	44	35	30	43	35	29	41	34	29	40	34	29	27					27			
9	55	41	32	27	53	40	32	27	39	32	26	38	31	26	37	31	26	24					24			
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22					22			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2076	2076	2076
5°	2064	2079	2079
10°	2059	2073	2083
15°	2048	2069	2084
20°	2033	2064	2085
25°	2028	2071	2092
30°	2010	2055	2094
35°	1988	2048	2107
40°	1961	2044	2133
45°	1932	2042	2200
50°	1891	2057	2292
55°	1840	2102	2424
60°	1779	2159	2596
65°	1657	2266	2807
70°	1521	2374	3071
75°	1334	2498	3174
80°	1148	2380	2492
85°	1003	1729	1896



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.0	3.0
10°-20°	209.5	8.5
20°-30°	319.7	13.0
30°-40°	390.3	15.9
40°-50°	417.3	17.0
50°-60°	402.8	16.4
60°-70°	346.8	14.1
70°-80°	234.6	9.6
80°-90°	61.9	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°	602.2	24.5
0°-40°	992.5	40.4
0°-60°	1812.7	73.8
0°-90°	2456.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2456.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	772	772	772	772	772	
5°	764	766	770	770	770	73
15°	735	737	743	746	748	207
25°	683	687	697	701	705	314
35°	605	611	623	636	641	379
45°	508	517	537	564	578	392
55°	392	405	448	493	517	351
65°	260	286	356	412	441	259
75°	128	170	240	289	305	138
85°	32	45	56	58	61	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	771.5	771.5	771.5	771.5	771.5
2.5°	766.1	767.9	771.5	771.5	773.3
5°	764.2	766.1	769.7	769.7	769.7
7.5°	758.8	760.6	764.2	766.1	766.1
10°	753.4	755.2	758.8	760.6	762.4
12.5°	744.4	746.2	751.6	755.2	755.2
15°	735.3	737.1	742.6	746.2	748.0
17.5°	724.5	728.1	733.5	737.1	739.0
20°	710.0	713.7	720.9	726.3	728.1
22.5°	697.4	701.0	708.2	713.7	717.3
25°	682.9	686.6	697.4	701.0	704.6
27.5°	664.9	668.5	677.5	684.7	690.2
30°	646.8	650.4	661.3	670.3	673.9
32.5°	626.9	632.4	645.0	652.2	657.6
35°	605.3	610.7	623.3	636.0	641.4
37.5°	583.6	589.0	601.6	617.9	625.1
40°	558.3	565.5	581.8	603.4	607.1
42.5°	534.8	543.8	558.3	583.6	592.6
45°	507.7	516.7	536.6	563.7	578.2
47.5°	482.4	491.4	513.1	545.6	563.7
50°	451.7	464.3	491.4	529.4	547.4
52.5°	422.8	433.6	469.7	511.3	533.0
55°	392.1	404.7	448.1	493.2	516.7
57.5°	365.0	375.8	424.6	475.2	502.3
60°	330.6	345.1	401.1	455.3	482.4
62.5°	294.5	316.2	377.6	433.6	462.5
65°	260.2	285.5	355.9	411.9	440.8
67.5°	229.5	256.6	328.8	388.4	415.5
70°	193.3	227.6	301.7	359.5	390.3
72.5°	160.8	198.7	271.0	328.8	355.9
75°	128.3	169.8	240.3	289.1	305.3
77.5°	99.4	139.1	206.0	220.4	222.2
80°	74.1	110.2	153.6	155.4	160.8
82.5°	50.6	77.7	99.4	108.4	110.2
85°	32.5	45.2	56.0	57.8	61.4
87.5°	14.5	16.3	19.9	18.1	18.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)