

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: P277652

Luminaire Tested: **22CZ2-44HE-RDP-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P277652  
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: 22CZ2-44HE-RDP-UNV-L92765-W2A1-U-5000K  
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RDP LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2548.0 lumens  
Efficiency: N/A  
Efficacy: 71.9 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

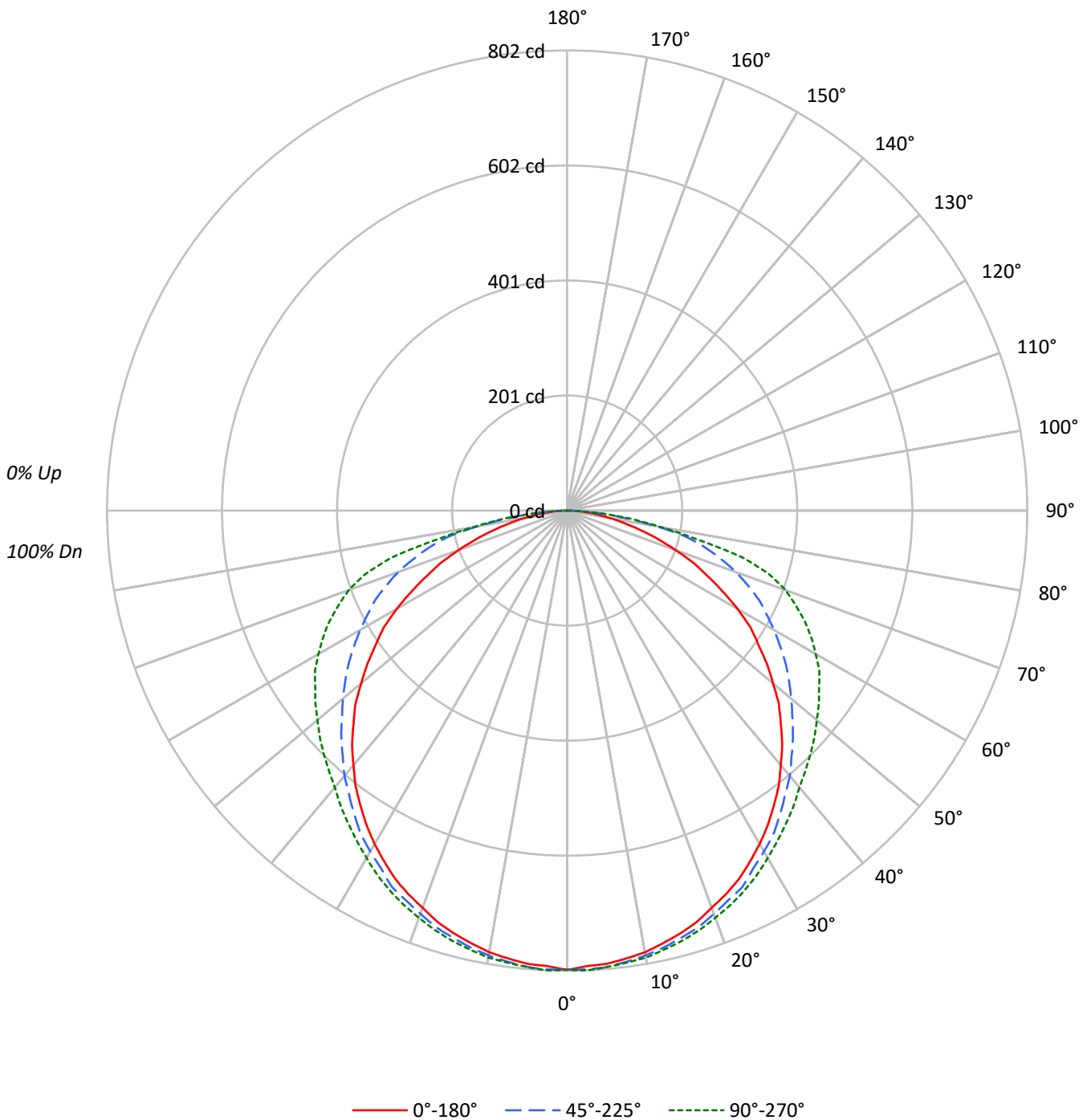
Input Watts (W): 35.433  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2154	2154	2154
5°	2142	2157	2157
10°	2136	2151	2161
15°	2125	2146	2162
20°	2109	2142	2163
25°	2104	2148	2170
30°	2085	2132	2173
35°	2063	2124	2186
40°	2035	2120	2212
45°	2004	2119	2283
50°	1962	2134	2377
55°	1908	2181	2515
60°	1846	2239	2694
65°	1719	2351	2912
70°	1578	2463	3186
75°	1384	2592	3294
80°	1192	2469	2585
85°	1041	1794	1967



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	75.7	3.0
10°-20°	217.4	8.5
20°-30°	331.7	13.0
30°-40°	405.0	15.9
40°-50°	433.0	17.0
50°-60°	417.9	16.4
60°-70°	359.8	14.1
70°-80°	243.4	9.6
80°-90°	64.2	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°	624.7	24.5
0°-40°	1029.7	40.4
0°-60°	1880.6	73.8
0°-90°	2548.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2548.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	800	800	800	800	800	
5°	793	795	798	798	798	75
15°	763	765	770	774	776	215
25°	708	712	724	727	731	326
35°	628	634	647	660	665	393
45°	527	536	557	585	600	407
55°	407	420	465	512	536	364
65°	270	296	369	427	457	268
75°	133	176	249	300	317	143
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°	800.4	800.4	800.4	800.4	800.4
2.5°	794.7	796.6	800.4	800.4	802.2
5°	792.9	794.7	798.5	798.5	798.5
7.5°	787.3	789.1	792.9	794.7	794.7
10°	781.6	783.5	787.3	789.1	791.0
12.5°	772.3	774.1	779.8	783.5	783.5
15°	762.9	764.8	770.4	774.1	776.0
17.5°	751.6	755.4	761.0	764.8	766.6
20°	736.6	740.4	747.9	753.5	755.4
22.5°	723.5	727.3	734.8	740.4	744.1
25°	708.5	712.3	723.5	727.3	731.0
27.5°	689.8	693.5	702.9	710.4	716.0
30°	671.0	674.8	686.0	695.4	699.2
32.5°	650.4	656.0	669.2	676.7	682.3
35°	627.9	633.5	646.7	659.8	665.4
37.5°	605.4	611.1	624.2	641.0	648.5
40°	579.2	586.7	603.6	626.1	629.8
42.5°	554.8	564.2	579.2	605.4	614.8
45°	526.7	536.1	556.7	584.8	599.8
47.5°	500.5	509.8	532.3	566.1	584.8
50°	468.6	481.7	509.8	549.2	567.9
52.5°	438.6	449.9	487.3	530.5	552.9
55°	406.7	419.9	464.9	511.7	536.1
57.5°	378.6	389.9	440.5	493.0	521.1
60°	343.0	358.0	416.1	472.4	500.5
62.5°	305.5	328.0	391.8	449.9	479.8
65°	269.9	296.2	369.3	427.4	457.4
67.5°	238.0	266.2	341.1	403.0	431.1
70°	200.6	236.2	313.0	373.0	404.9
72.5°	166.8	206.2	281.2	341.1	369.3
75°	133.1	176.2	249.3	299.9	316.8
77.5°	103.1	144.3	213.7	228.7	230.6
80°	76.9	114.3	159.3	161.2	166.8
82.5°	52.5	80.6	103.1	112.5	114.3
85°	33.7	46.9	58.1	60.0	63.7
87.5°	15.0	16.9	20.6	18.7	18.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)