

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: P277655

Luminaire Tested: **22CZ2-44HE-RDP-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P277655  
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-6500K  
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RDP LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2616.0 lumens  
Efficiency: N/A  
Efficacy: 72.3 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

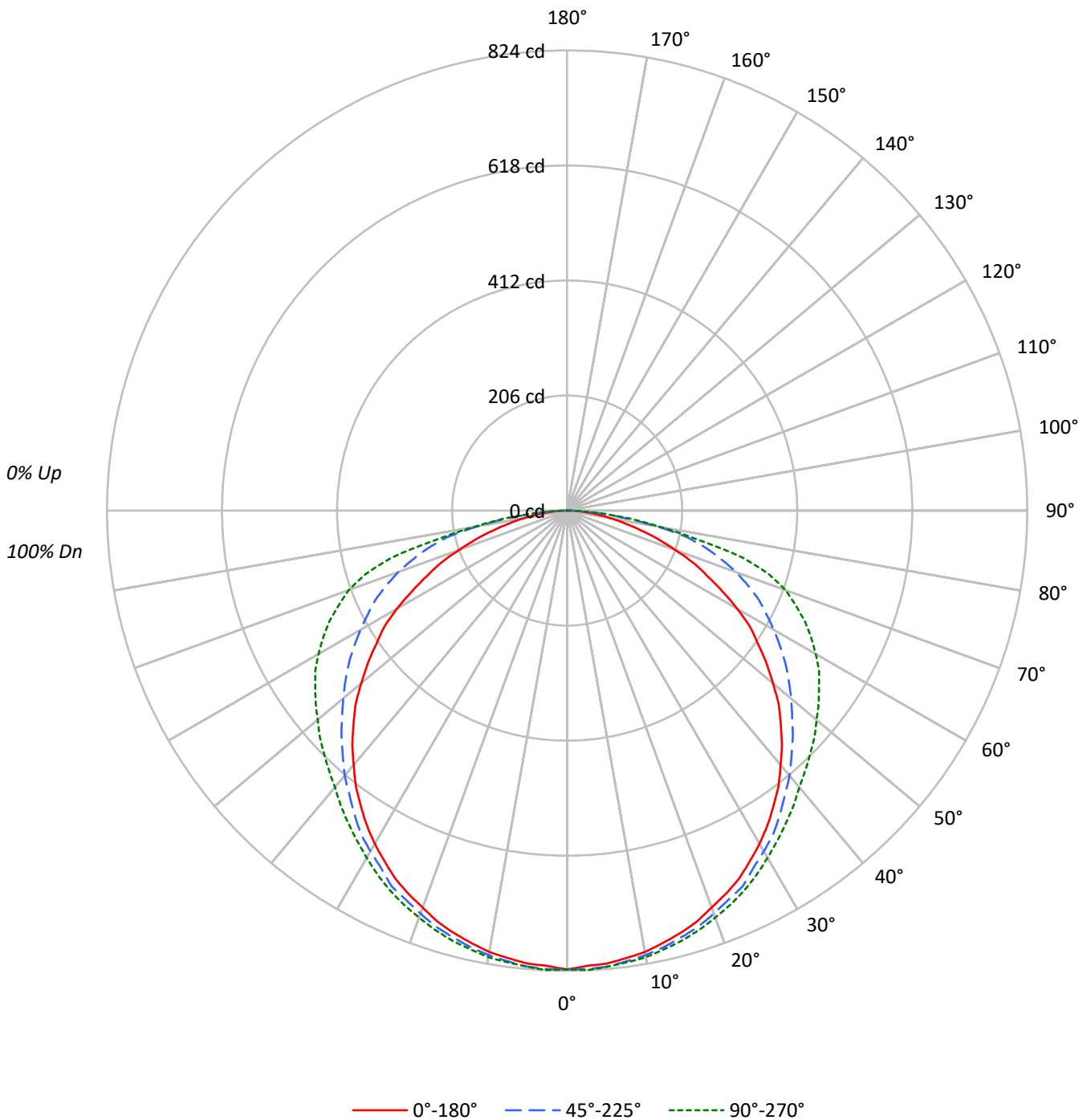
Input Watts (W): 36.177  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2211	2211	2211
5°	2199	2214	2214
10°	2193	2209	2219
15°	2182	2203	2220
20°	2166	2199	2221
25°	2160	2205	2228
30°	2141	2188	2230
35°	2118	2181	2244
40°	2089	2177	2271
45°	2058	2175	2343
50°	2014	2191	2441
55°	1959	2239	2582
60°	1896	2299	2765
65°	1764	2414	2990
70°	1620	2529	3271
75°	1420	2661	3381
80°	1223	2535	2655
85°	1068	1843	2019



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	77.7	3.0
10°-20°	223.2	8.5
20°-30°	340.5	13.0
30°-40°	415.8	15.9
40°-50°	444.5	17.0
50°-60°	429.1	16.4
60°-70°	369.4	14.1
70°-80°	249.9	9.6
80°-90°	65.9	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°	641.4	24.5
0°-40°	1057.2	40.4
0°-60°	1930.8	73.8
0°-90°	2616.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2616.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	822	822	822	822	822	
5°	814	816	820	820	820	77
15°	783	785	791	795	797	221
25°	727	731	743	747	750	335
35°	645	650	664	677	683	403
45°	541	550	572	600	616	417
55°	418	431	477	525	550	374
65°	277	304	379	439	470	276
75°	137	181	256	308	325	147
85°	35	48	60	62	65	39
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	821.7	821.7	821.7	821.7	821.7
2.5°	816.0	817.9	821.7	821.7	823.7
5°	814.0	816.0	819.8	819.8	819.8
7.5°	808.3	810.2	814.0	816.0	816.0
10°	802.5	804.4	808.3	810.2	812.1
12.5°	792.9	794.8	800.6	804.4	804.4
15°	783.2	785.2	790.9	794.8	796.7
17.5°	771.7	775.5	781.3	785.2	787.1
20°	756.3	760.1	767.8	773.6	775.5
22.5°	742.8	746.7	754.4	760.1	764.0
25°	727.4	731.3	742.8	746.7	750.5
27.5°	708.2	712.0	721.7	729.4	735.1
30°	688.9	692.8	704.3	714.0	717.8
32.5°	667.8	673.6	687.0	694.7	700.5
35°	644.7	650.5	663.9	677.4	683.2
37.5°	621.6	627.4	640.8	658.2	665.9
40°	594.6	602.3	619.7	642.8	646.6
42.5°	569.6	579.3	594.6	621.6	631.2
45°	540.8	550.4	571.6	600.4	615.8
47.5°	513.8	523.4	546.5	581.2	600.4
50°	481.1	494.6	523.4	563.9	583.1
52.5°	450.3	461.9	500.4	544.6	567.7
55°	417.6	431.1	477.3	525.4	550.4
57.5°	388.7	400.3	452.2	506.1	535.0
60°	352.2	367.6	427.2	485.0	513.8
62.5°	313.7	336.8	402.2	461.9	492.7
65°	277.1	304.1	379.1	438.8	469.6
67.5°	244.4	273.3	350.2	413.8	442.6
70°	205.9	242.5	321.4	383.0	415.7
72.5°	171.3	211.7	288.7	350.2	379.1
75°	136.6	180.9	255.9	307.9	325.2
77.5°	105.8	148.2	219.4	234.8	236.7
80°	78.9	117.4	163.6	165.5	171.3
82.5°	53.9	82.8	105.8	115.5	117.4
85°	34.6	48.1	59.7	61.6	65.4
87.5°	15.4	17.3	21.2	19.2	19.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)