

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: P276548

Luminaire Tested: **24CZ2-75HE-S-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276548
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-1)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-75HE-S-UNV-L82765-W2A1-U-5000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7715.4 lumens
Efficiency: N/A
Efficacy: 129.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

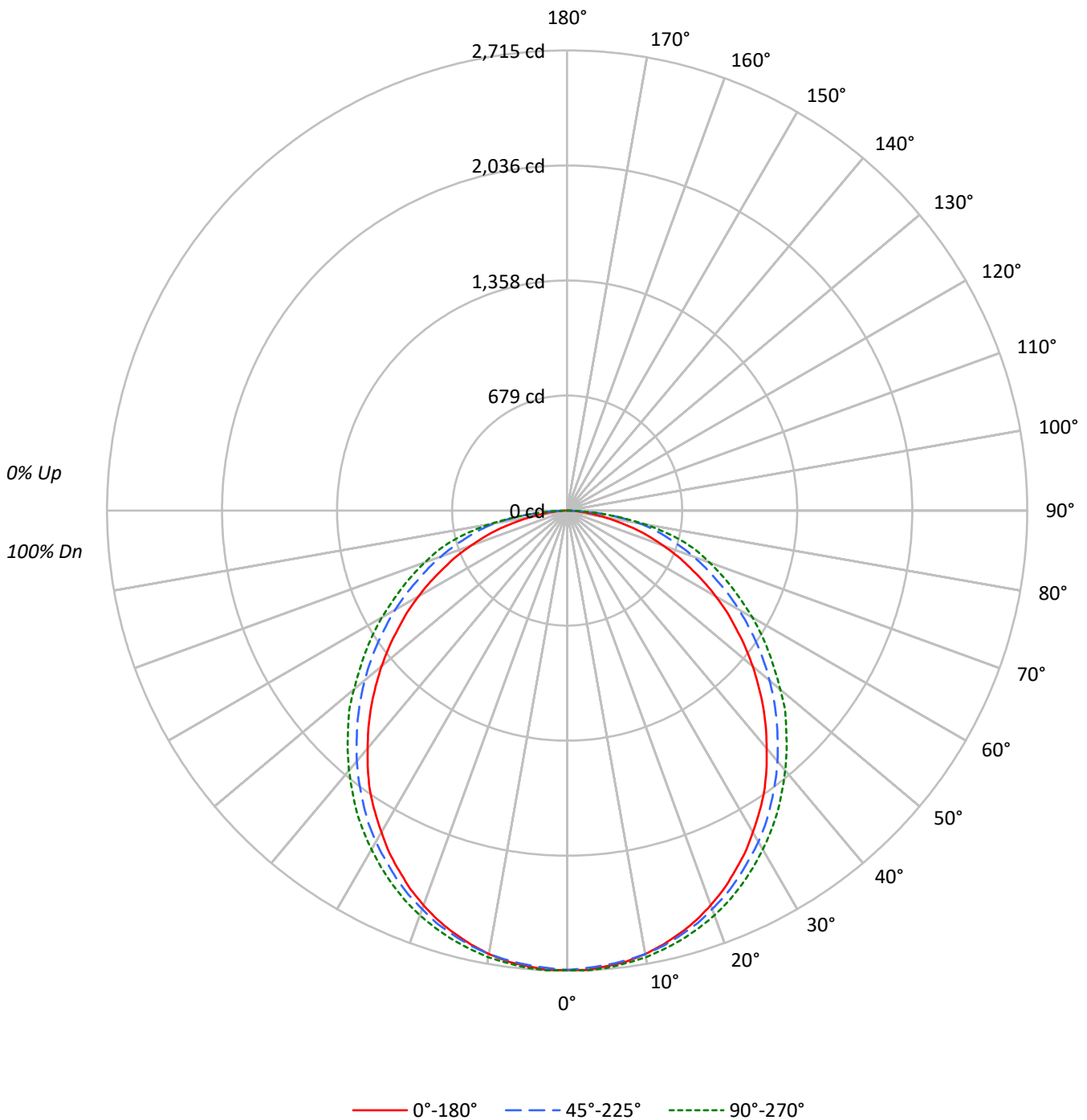
Input Watts (W): 59.799
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	95	106	101	97	93	97	93	90		93	90	88		89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74		81	76	72		78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62		71	66	61		69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53		63	57	52		61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		55	49	45	42
6	70	56	47	40	68	55	47	40	53	46	40		52	45	40		50	44	39	37
7	64	51	42	36	63	50	42	36	48	41	35		47	40	35		46	39	35	33
8	60	46	38	32	58	46	37	32	44	37	32		43	36	31		42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28		40	33	28		39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3647	3647	3647
5°	3644	3634	3658
10°	3629	3629	3656
15°	3595	3612	3649
20°	3548	3583	3639
25°	3482	3547	3616
30°	3404	3507	3587
35°	3329	3450	3558
40°	3215	3392	3517
45°	3110	3325	3479
50°	2991	3262	3437
55°	2857	3202	3403
60°	2724	3152	3396
65°	2551	3097	3417
70°	2362	3114	3509
75°	2115	3172	3708
80°	1709	3361	3627
85°	1286	2952	2876



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.6	3.3
10°-20°	733.2	9.5
20°-30°	1102.2	14.3
30°-40°	1312.9	17.0
40°-50°	1343.6	17.4
50°-60°	1209.7	15.7
60°-70°	950.0	12.3
70°-80°	616.6	8.0
80°-90°	190.7	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°	2092.0	27.1
0°-40°	3404.8	44.1
0°-60°	5958.1	77.2
0°-90°	7715.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7715.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2710	2710	2710	2710	2710	
5°	2698	2703	2691	2706	2708	256
15°	2581	2588	2593	2615	2620	728
25°	2345	2365	2389	2429	2436	1080
35°	2027	2051	2100	2152	2166	1264
45°	1635	1674	1747	1814	1828	1260
55°	1218	1272	1365	1436	1451	1092
65°	801	863	973	1054	1073	798
75°	407	485	610	694	713	431
85°	83	154	191	186	186	101
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2710.5	2710.5	2710.5	2710.5	2710.5
2.5°	2712.9	2712.9	2700.7	2712.9	2715.4
5°	2698.2	2703.1	2690.9	2705.6	2708.0
7.5°	2683.5	2683.5	2676.2	2690.9	2693.3
10°	2656.5	2659.0	2656.5	2673.7	2676.2
12.5°	2622.2	2627.1	2629.6	2646.7	2649.2
15°	2580.6	2587.9	2592.8	2614.9	2619.8
17.5°	2534.0	2541.4	2553.6	2578.1	2583.0
20°	2477.6	2487.5	2502.2	2534.0	2541.4
22.5°	2416.4	2426.2	2450.7	2480.1	2492.4
25°	2345.3	2364.9	2389.4	2428.6	2436.0
27.5°	2274.2	2291.4	2323.3	2364.9	2374.7
30°	2190.9	2217.9	2257.1	2298.7	2308.6
32.5°	2110.0	2137.0	2183.6	2227.7	2239.9
35°	2026.7	2051.2	2100.2	2151.7	2166.4
37.5°	1931.1	1963.0	2016.9	2068.4	2083.1
40°	1830.7	1869.9	1931.1	1985.1	2002.2
42.5°	1735.1	1776.8	1838.0	1896.8	1916.4
45°	1634.6	1673.8	1747.3	1813.5	1828.2
47.5°	1531.7	1575.8	1654.2	1720.4	1744.9
50°	1428.8	1475.3	1558.6	1627.3	1642.0
52.5°	1325.8	1374.8	1463.1	1536.6	1543.9
55°	1218.0	1271.9	1365.0	1436.1	1450.8
57.5°	1120.0	1166.5	1267.0	1340.5	1357.7
60°	1012.1	1063.6	1171.4	1240.0	1262.1
62.5°	909.2	963.1	1075.9	1144.5	1164.1
65°	801.4	862.6	972.9	1053.8	1073.4
67.5°	708.2	767.1	884.7	963.1	982.7
70°	600.4	666.6	791.6	872.4	892.1
72.5°	507.3	575.9	700.9	779.3	808.7
75°	406.8	485.2	610.2	693.5	713.2
77.5°	308.8	399.5	526.9	590.6	590.6
80°	220.6	316.1	433.8	463.2	468.1
82.5°	144.6	237.7	321.0	318.6	318.6
85°	83.3	154.4	191.2	186.3	186.3
87.5°	31.9	63.7	68.6	68.6	66.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)