

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: P261346

Luminaire Tested: **24CZ-LD5-75-S-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261346
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25694)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-75-S-UNV-L92765-W2A1-U-6500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (336) 90 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7297.0 lumens
Efficiency: N/A
Efficacy: 119.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

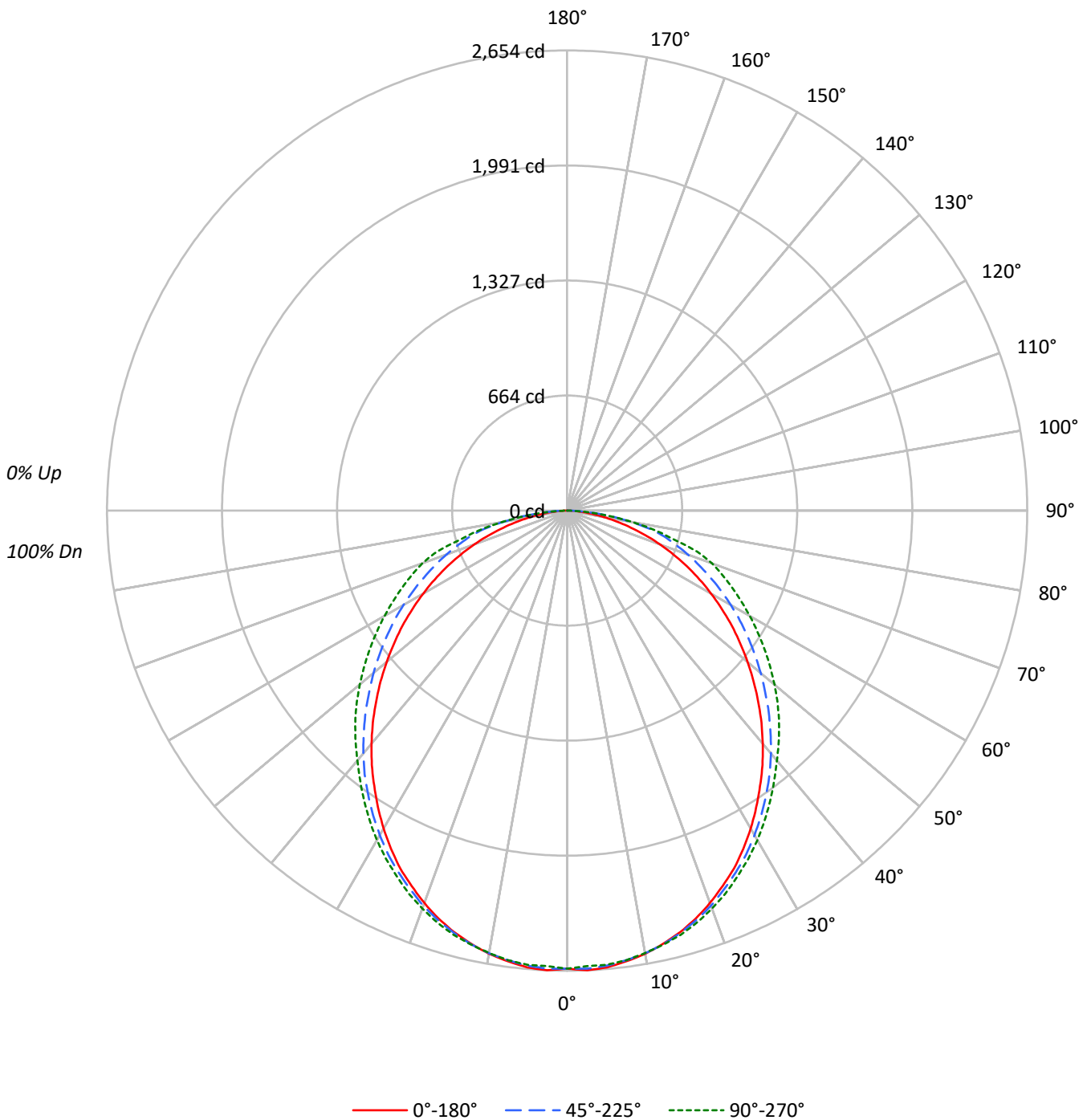
Input Watts (W): 61.101
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83					83			
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69					69			
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58					58			
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	50					50			
5	76	63	53	47	73	61	53	47	59	52	46	57	51	45	55	50	45	43					43			
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38					38			
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33					33			
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30					30			
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27					27			
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3554	3554	3554
5°	3571	3558	3551
10°	3546	3543	3540
15°	3507	3514	3528
20°	3449	3473	3497
25°	3381	3417	3453
30°	3289	3357	3410
35°	3187	3286	3354
40°	3083	3211	3305
45°	2966	3128	3289
50°	2846	3049	3268
55°	2723	2985	3258
60°	2581	2934	3273
65°	2427	2899	3339
70°	2235	2913	3496
75°	1982	3017	3256
80°	1656	2860	2935
85°	1237	2286	2100



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.8	3.4
10°-20°	710.3	9.7
20°-30°	1058.6	14.5
30°-40°	1246.1	17.1
40°-50°	1266.3	17.4
50°-60°	1138.5	15.6
60°-70°	899.4	12.3
70°-80°	570.6	7.8
80°-90°	157.5	2.2
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°	2018.6	27.7
0°-40°	3264.7	44.7
0°-60°	5669.5	77.7
0°-90°	7297.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7297.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2642	2642	2642	2642	2642	
5°	2644	2622	2634	2630	2630	251
15°	2518	2506	2523	2530	2532	709
25°	2278	2275	2302	2316	2326	1047
35°	1940	1952	2001	2022	2042	1214
45°	1559	1581	1644	1692	1729	1203
55°	1161	1190	1272	1355	1389	1036
65°	762	801	910	1010	1049	755
75°	381	447	580	631	626	406
85°	80	138	148	136	136	98
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2641.6	2641.6	2641.6	2641.6	2641.6
2.5°	2653.8	2634.4	2644.1	2639.2	2629.5
5°	2644.1	2622.2	2634.4	2629.5	2629.5
7.5°	2622.2	2605.2	2614.9	2612.5	2614.9
10°	2595.5	2578.5	2593.1	2593.1	2590.7
12.5°	2559.1	2544.5	2561.5	2561.5	2564.0
15°	2517.8	2505.7	2522.7	2530.0	2532.4
17.5°	2466.8	2454.7	2476.5	2483.8	2491.1
20°	2408.6	2403.7	2425.6	2432.8	2442.6
22.5°	2343.0	2343.0	2364.9	2374.6	2389.1
25°	2277.5	2275.0	2301.7	2316.3	2326.0
27.5°	2199.8	2202.2	2236.2	2250.7	2262.9
30°	2117.2	2122.1	2160.9	2177.9	2194.9
32.5°	2029.8	2039.5	2083.2	2102.6	2119.6
35°	1940.0	1952.1	2000.7	2022.5	2041.9
37.5°	1850.1	1867.1	1918.1	1940.0	1961.8
40°	1755.4	1770.0	1828.3	1855.0	1881.7
42.5°	1658.3	1677.7	1736.0	1774.9	1806.4
45°	1558.8	1580.6	1643.7	1692.3	1728.7
47.5°	1459.2	1488.4	1549.1	1614.6	1646.2
50°	1359.7	1388.8	1456.8	1529.6	1561.2
52.5°	1257.7	1286.8	1364.5	1439.8	1473.8
55°	1160.6	1189.7	1272.3	1354.8	1388.8
57.5°	1058.6	1090.2	1182.4	1267.4	1301.4
60°	959.1	990.6	1090.2	1180.0	1216.4
62.5°	861.9	895.9	1000.3	1095.0	1131.4
65°	762.4	801.2	910.5	1010.0	1048.9
67.5°	665.3	709.0	823.1	927.5	968.8
70°	568.1	619.1	740.5	847.4	888.6
72.5°	473.5	529.3	658.0	764.8	786.7
75°	381.2	446.7	580.3	631.3	626.4
77.5°	293.8	366.6	492.9	502.6	517.2
80°	213.7	293.8	369.1	388.5	378.8
82.5°	140.8	220.9	264.7	254.9	252.5
85°	80.1	138.4	148.1	136.0	136.0
87.5°	34.0	55.8	48.6	36.4	34.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)