

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: P261096

Luminaire Tested: **24CZ-LD5-75-S-UNV-L93050-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261096
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-L93050-W2A1-U-5000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (336) 90 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7181.3 lumens
Efficiency: N/A
Efficacy: 118.0 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

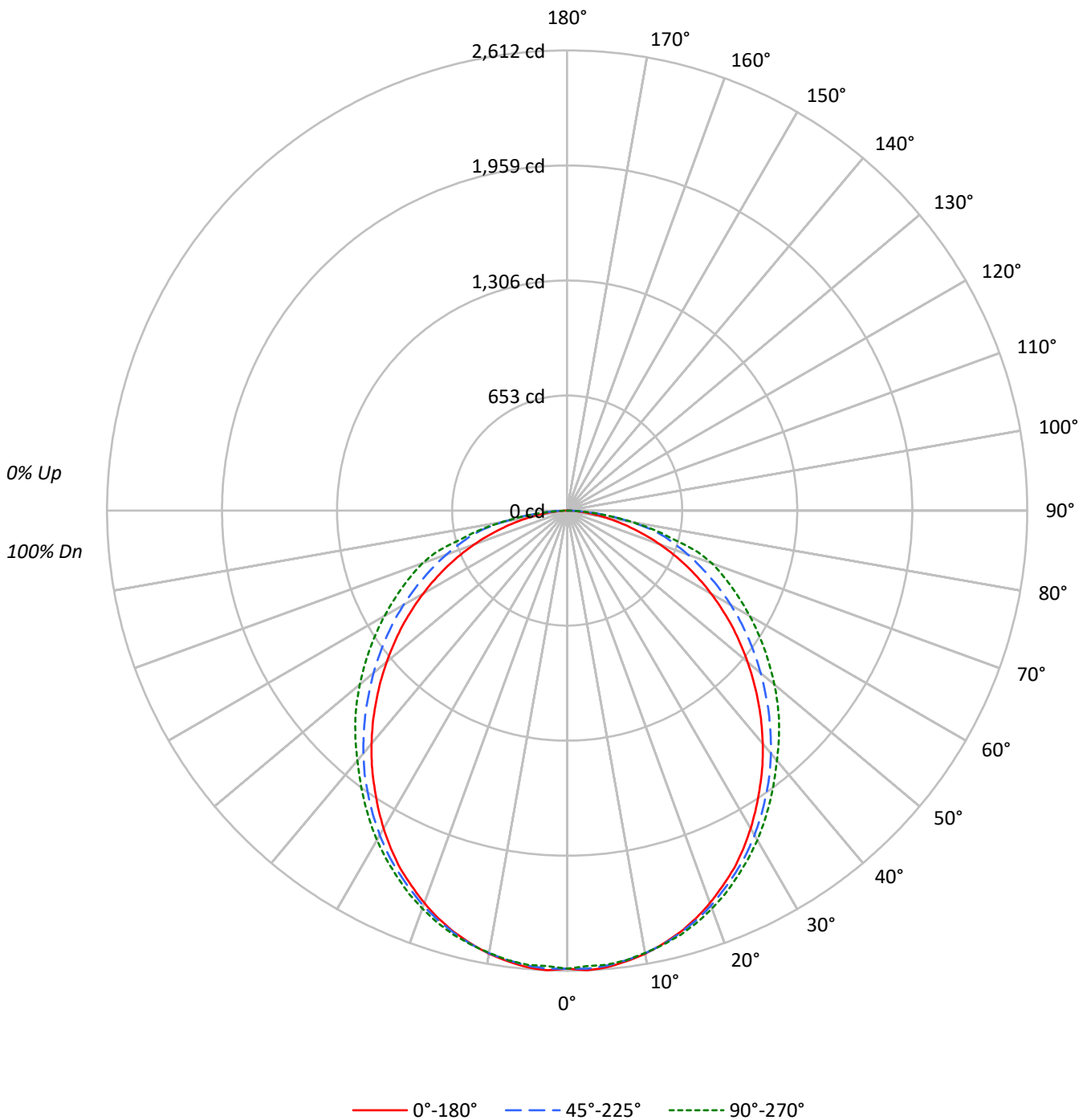
Input Watts (W): 60.856968
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3498	3498	3498
5°	3515	3502	3495
10°	3490	3487	3483
15°	3452	3458	3472
20°	3394	3418	3442
25°	3327	3363	3398
30°	3237	3304	3356
35°	3136	3234	3301
40°	3034	3160	3253
45°	2919	3078	3237
50°	2801	3001	3216
55°	2679	2937	3206
60°	2540	2887	3221
65°	2389	2853	3287
70°	2199	2867	3441
75°	1950	2969	3205
80°	1629	2814	2889
85°	1218	2251	2066



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.8	3.4
10°-20°	699.1	9.7
20°-30°	1041.8	14.5
30°-40°	1226.3	17.1
40°-50°	1246.2	17.4
50°-60°	1120.4	15.6
60°-70°	885.2	12.3
70°-80°	561.6	7.8
80°-90°	155.0	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°	1986.6	27.7
0°-40°	3212.9	44.7
0°-60°	5579.6	77.7
0°-90°	7181.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7181.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2600	2600	2600	2600	2600	
5°	2602	2581	2593	2588	2588	247
15°	2478	2466	2483	2490	2492	698
25°	2241	2239	2265	2280	2289	1031
35°	1909	1921	1969	1990	2010	1194
45°	1534	1556	1618	1666	1701	1184
55°	1142	1171	1252	1333	1367	1020
65°	750	788	896	994	1032	743
75°	375	440	571	621	616	399
85°	79	136	146	134	134	97
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2599.8	2599.8	2599.8	2599.8	2599.8
2.5°	2611.7	2592.6	2602.2	2597.4	2587.8
5°	2602.2	2580.6	2592.6	2587.8	2587.8
7.5°	2580.6	2563.9	2573.5	2571.1	2573.5
10°	2554.4	2537.6	2552.0	2552.0	2549.6
12.5°	2518.5	2504.2	2520.9	2520.9	2523.3
15°	2477.9	2466.0	2482.7	2489.8	2492.2
17.5°	2427.7	2415.8	2437.3	2444.4	2451.6
20°	2370.4	2365.6	2387.1	2394.3	2403.8
22.5°	2305.9	2305.9	2327.4	2336.9	2351.3
25°	2241.3	2239.0	2265.2	2279.6	2289.1
27.5°	2164.9	2167.3	2200.7	2215.1	2227.0
30°	2083.6	2088.4	2126.6	2143.4	2160.1
32.5°	1997.6	2007.2	2050.2	2069.3	2086.0
35°	1909.2	1921.1	1968.9	1990.4	2009.6
37.5°	1820.8	1837.5	1887.7	1909.2	1930.7
40°	1727.6	1741.9	1799.3	1825.6	1851.9
42.5°	1632.0	1651.1	1708.5	1746.7	1777.8
45°	1534.1	1555.6	1617.7	1665.5	1701.3
47.5°	1436.1	1464.8	1524.5	1589.0	1620.1
50°	1338.1	1366.8	1433.7	1505.4	1536.4
52.5°	1237.8	1266.4	1342.9	1417.0	1450.4
55°	1142.2	1170.8	1252.1	1333.3	1366.8
57.5°	1041.8	1072.9	1163.7	1247.3	1280.8
60°	943.8	974.9	1072.9	1161.3	1197.1
62.5°	848.3	881.7	984.5	1077.7	1113.5
65°	750.3	788.5	896.1	994.0	1032.3
67.5°	654.7	697.7	810.0	912.8	953.4
70°	559.1	609.3	728.8	833.9	874.6
72.5°	466.0	520.9	647.6	752.7	774.2
75°	375.1	439.7	571.1	621.3	616.5
77.5°	289.1	360.8	485.1	494.6	509.0
80°	210.3	289.1	363.2	382.3	372.8
82.5°	138.6	217.4	260.5	250.9	248.5
85°	78.9	136.2	145.8	133.8	133.8
87.5°	33.5	55.0	47.8	35.8	33.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)