

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: P261202

Luminaire Tested: **24CZ-LD5-70-S-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261202
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-LD5-70-S-UNV-L82765-W2A1-U-6500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (336) 80 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7517.0 lumens
Efficiency: N/A
Efficacy: 134.0 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

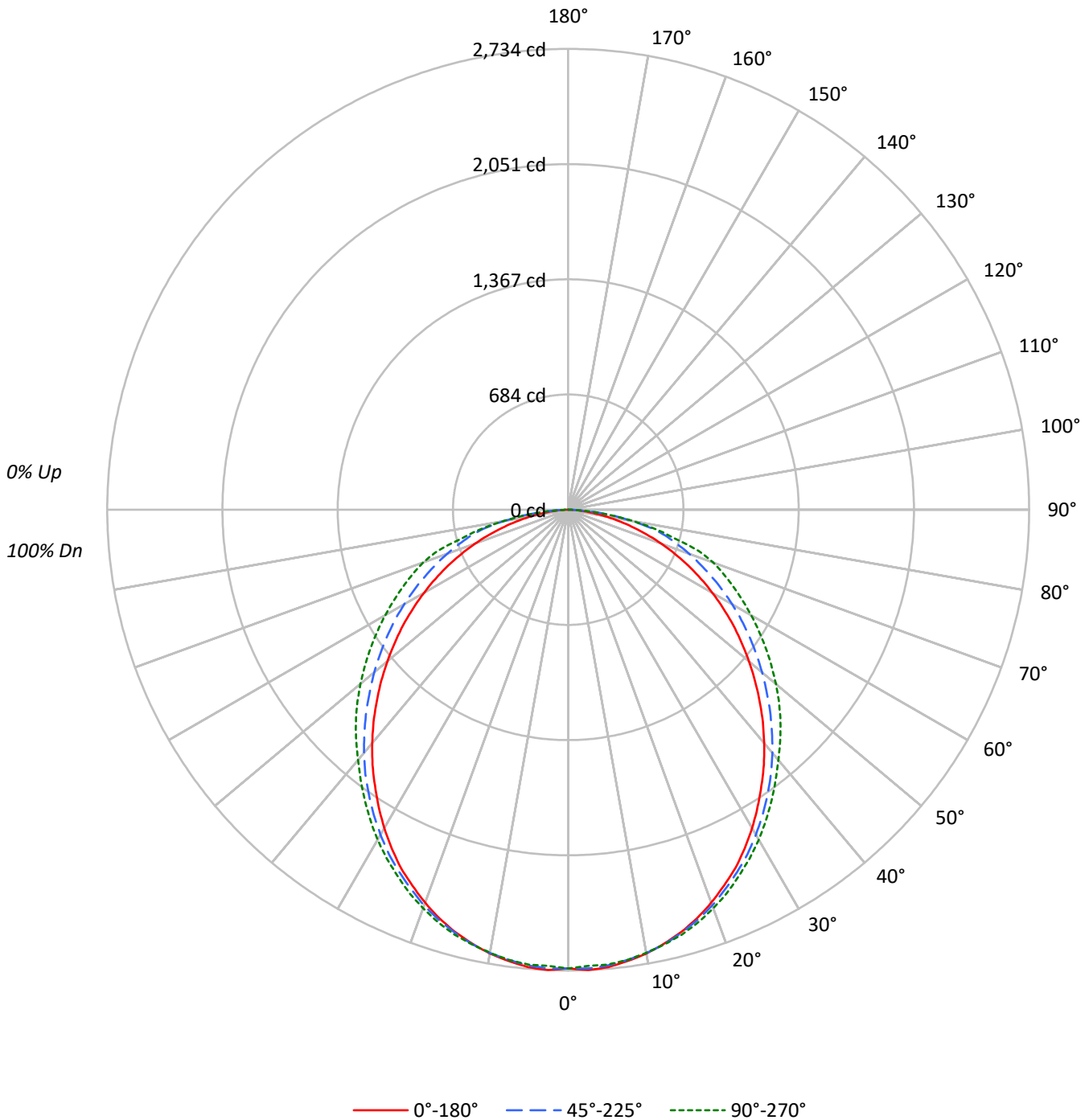
Input Watts (W): 56.079
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3661	3661	3661
5°	3679	3665	3659
10°	3653	3650	3646
15°	3613	3620	3634
20°	3553	3578	3603
25°	3483	3520	3557
30°	3388	3459	3513
35°	3282	3385	3455
40°	3176	3308	3405
45°	3056	3222	3389
50°	2932	3141	3367
55°	2805	3074	3356
60°	2659	3022	3372
65°	2500	2986	3440
70°	2303	3001	3601
75°	2041	3108	3355
80°	1705	2946	3023
85°	1274	2356	2163



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.3	3.4
10°-20°	731.7	9.7
20°-30°	1090.5	14.5
30°-40°	1283.6	17.1
40°-50°	1304.5	17.4
50°-60°	1172.8	15.6
60°-70°	926.5	12.3
70°-80°	587.8	7.8
80°-90°	162.2	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°	2079.5	27.7
0°-40°	3363.1	44.7
0°-60°	5840.4	77.7
0°-90°	7517.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7517.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2721	2721	2721	2721	2721	
5°	2724	2701	2714	2709	2709	258
15°	2594	2581	2599	2606	2609	731
25°	2346	2344	2371	2386	2396	1079
35°	1998	2011	2061	2084	2104	1250
45°	1606	1628	1693	1743	1781	1239
55°	1196	1226	1311	1396	1431	1068
65°	785	825	938	1040	1080	778
75°	393	460	598	650	645	418
85°	82	143	153	140	140	101
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2721.3	2721.3	2721.3	2721.3	2721.3
2.5°	2733.8	2713.8	2723.8	2718.8	2708.8
5°	2723.8	2701.3	2713.8	2708.8	2708.8
7.5°	2701.3	2683.8	2693.8	2691.3	2693.8
10°	2673.8	2656.3	2671.3	2671.3	2668.8
12.5°	2636.3	2621.2	2638.8	2638.8	2641.3
15°	2593.7	2581.2	2598.7	2606.2	2608.7
17.5°	2541.2	2528.7	2551.2	2558.7	2566.2
20°	2481.2	2476.2	2498.7	2506.2	2516.2
22.5°	2413.6	2413.6	2436.2	2446.2	2461.2
25°	2346.1	2343.6	2371.1	2386.1	2396.1
27.5°	2266.1	2268.6	2303.6	2318.6	2331.1
30°	2181.0	2186.0	2226.1	2243.6	2261.1
32.5°	2091.0	2101.0	2146.0	2166.0	2183.5
35°	1998.4	2011.0	2061.0	2083.5	2103.5
37.5°	1905.9	1923.4	1975.9	1998.4	2021.0
40°	1808.4	1823.4	1883.4	1910.9	1938.4
42.5°	1708.3	1728.3	1788.3	1828.4	1860.9
45°	1605.8	1628.3	1693.3	1743.3	1780.8
47.5°	1503.2	1533.2	1595.8	1663.3	1695.8
50°	1400.7	1430.7	1500.7	1575.7	1608.3
52.5°	1295.6	1325.6	1405.7	1483.2	1518.2
55°	1195.6	1225.6	1310.6	1395.7	1430.7
57.5°	1090.5	1123.0	1218.1	1305.6	1340.6
60°	988.0	1020.5	1123.0	1215.6	1253.1
62.5°	887.9	922.9	1030.5	1128.0	1165.6
65°	785.4	825.4	937.9	1040.5	1080.5
67.5°	685.3	730.3	847.9	955.5	998.0
70°	585.3	637.8	762.9	872.9	915.4
72.5°	487.7	545.3	677.8	787.9	810.4
75°	392.7	460.2	597.8	650.3	645.3
77.5°	302.6	377.7	507.7	517.7	532.8
80°	220.1	302.6	380.2	400.2	390.2
82.5°	145.1	227.6	272.6	262.6	260.1
85°	82.5	142.6	152.6	140.1	140.1
87.5°	35.0	57.5	50.0	37.5	35.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)