

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: P261201

Luminaire Tested: **24CZ-LD5-70-S-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261201
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-5700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (336) 80 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7498.0 lumens
Efficiency: N/A
Efficacy: 136.0 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

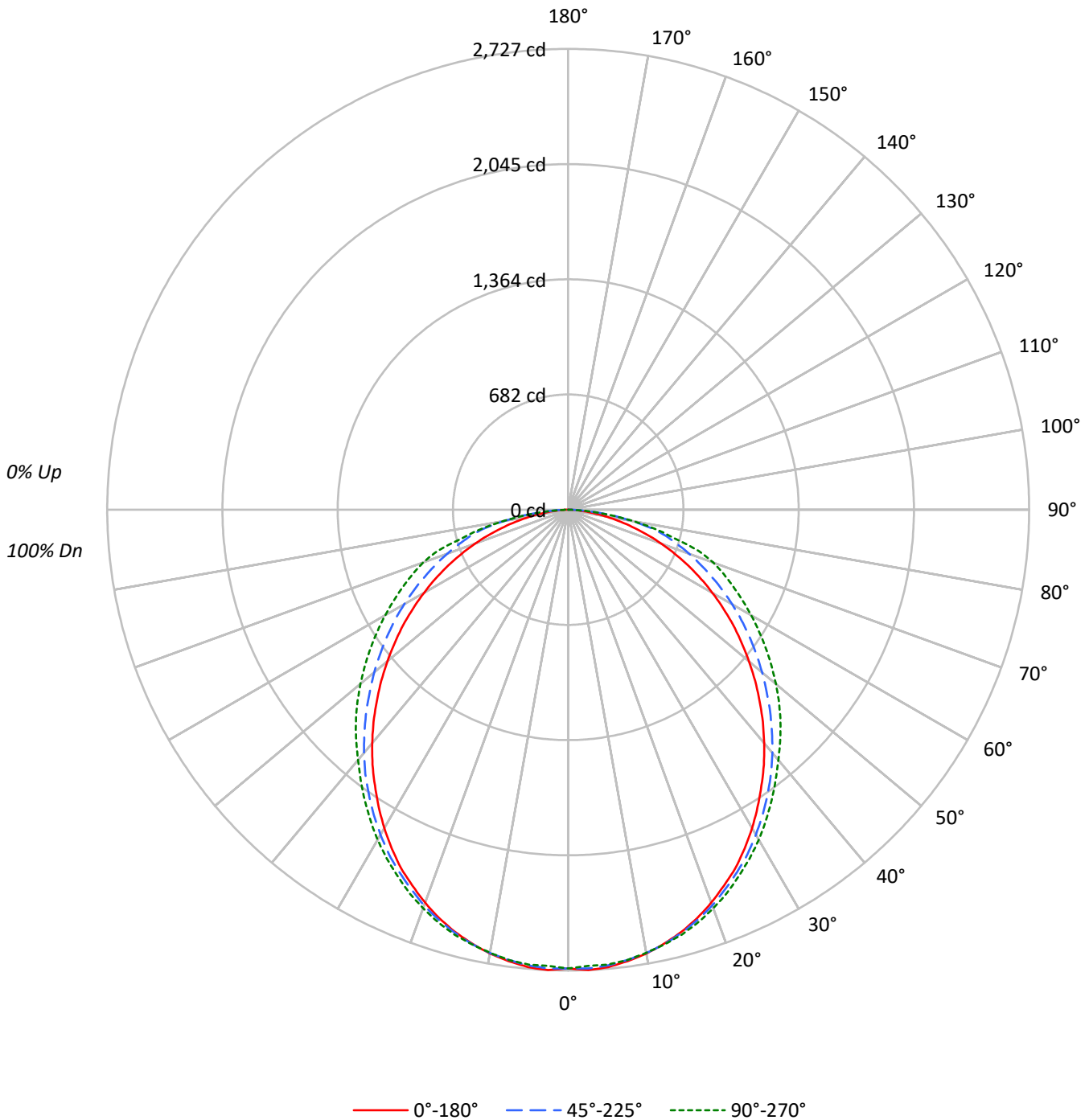
Input Watts (W): 55.149
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3652	3652	3652
5°	3670	3656	3649
10°	3644	3640	3637
15°	3604	3611	3625
20°	3544	3569	3594
25°	3474	3511	3548
30°	3380	3450	3504
35°	3274	3377	3446
40°	3168	3300	3396
45°	3048	3214	3380
50°	2924	3133	3358
55°	2797	3067	3348
60°	2652	3014	3363
65°	2494	2979	3431
70°	2297	2993	3592
75°	2036	3100	3346
80°	1701	2938	3016
85°	1271	2350	2157



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.6	3.4
10°-20°	729.9	9.7
20°-30°	1087.7	14.5
30°-40°	1280.4	17.1
40°-50°	1301.2	17.4
50°-60°	1169.8	15.6
60°-70°	924.2	12.3
70°-80°	586.3	7.8
80°-90°	161.8	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°	2074.2	27.7
0°-40°	3354.6	44.7
0°-60°	5825.7	77.7
0°-90°	7498.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7498.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2714	2714	2714	2714	2714	
5°	2717	2694	2707	2702	2702	258
15°	2587	2575	2592	2600	2602	729
25°	2340	2338	2365	2380	2390	1076
35°	1993	2006	2056	2078	2098	1247
45°	1602	1624	1689	1739	1776	1236
55°	1192	1222	1307	1392	1427	1065
65°	783	823	936	1038	1078	776
75°	392	459	596	649	644	417
85°	82	142	152	140	140	101
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2714.4	2714.4	2714.4	2714.4	2714.4
2.5°	2726.9	2706.9	2716.9	2711.9	2701.9
5°	2716.9	2694.5	2706.9	2701.9	2701.9
7.5°	2694.5	2677.0	2687.0	2684.5	2687.0
10°	2667.0	2649.5	2664.5	2664.5	2662.0
12.5°	2629.6	2614.6	2632.1	2632.1	2634.6
15°	2587.2	2574.7	2592.2	2599.7	2602.1
17.5°	2534.8	2522.3	2544.8	2552.2	2559.7
20°	2474.9	2469.9	2492.4	2499.9	2509.8
22.5°	2407.5	2407.5	2430.0	2440.0	2454.9
25°	2340.2	2337.7	2365.1	2380.1	2390.1
27.5°	2260.3	2262.8	2297.8	2312.7	2325.2
30°	2175.5	2180.5	2220.4	2237.9	2255.4
32.5°	2085.7	2095.7	2140.6	2160.6	2178.0
35°	1993.4	2005.9	2055.8	2078.2	2098.2
37.5°	1901.1	1918.6	1970.9	1993.4	2015.9
40°	1803.8	1818.8	1878.6	1906.1	1933.5
42.5°	1704.0	1724.0	1783.8	1823.7	1856.2
45°	1601.7	1624.2	1689.0	1738.9	1776.3
47.5°	1499.4	1529.4	1591.7	1659.1	1691.5
50°	1397.1	1427.1	1496.9	1571.8	1604.2
52.5°	1292.3	1322.3	1402.1	1479.5	1514.4
55°	1192.5	1222.5	1307.3	1392.1	1427.1
57.5°	1087.8	1120.2	1215.0	1302.3	1337.2
60°	985.5	1017.9	1120.2	1212.5	1249.9
62.5°	885.7	920.6	1027.9	1125.2	1162.6
65°	783.4	823.3	935.6	1037.9	1077.8
67.5°	683.6	728.5	845.8	953.0	995.5
70°	583.8	636.2	760.9	870.7	913.1
72.5°	486.5	543.9	676.1	785.9	808.3
75°	391.7	459.1	596.3	648.7	643.7
77.5°	301.9	376.7	506.5	516.4	531.4
80°	219.5	301.9	379.2	399.2	389.2
82.5°	144.7	227.0	271.9	262.0	259.5
85°	82.3	142.2	152.2	139.7	139.7
87.5°	34.9	57.4	49.9	37.4	34.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)