

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: P261199

Luminaire Tested: **24CZ-LD5-70-S-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261199
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-5000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (336) 80 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7405.0 lumens
Efficiency: N/A
Efficacy: 134.7 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

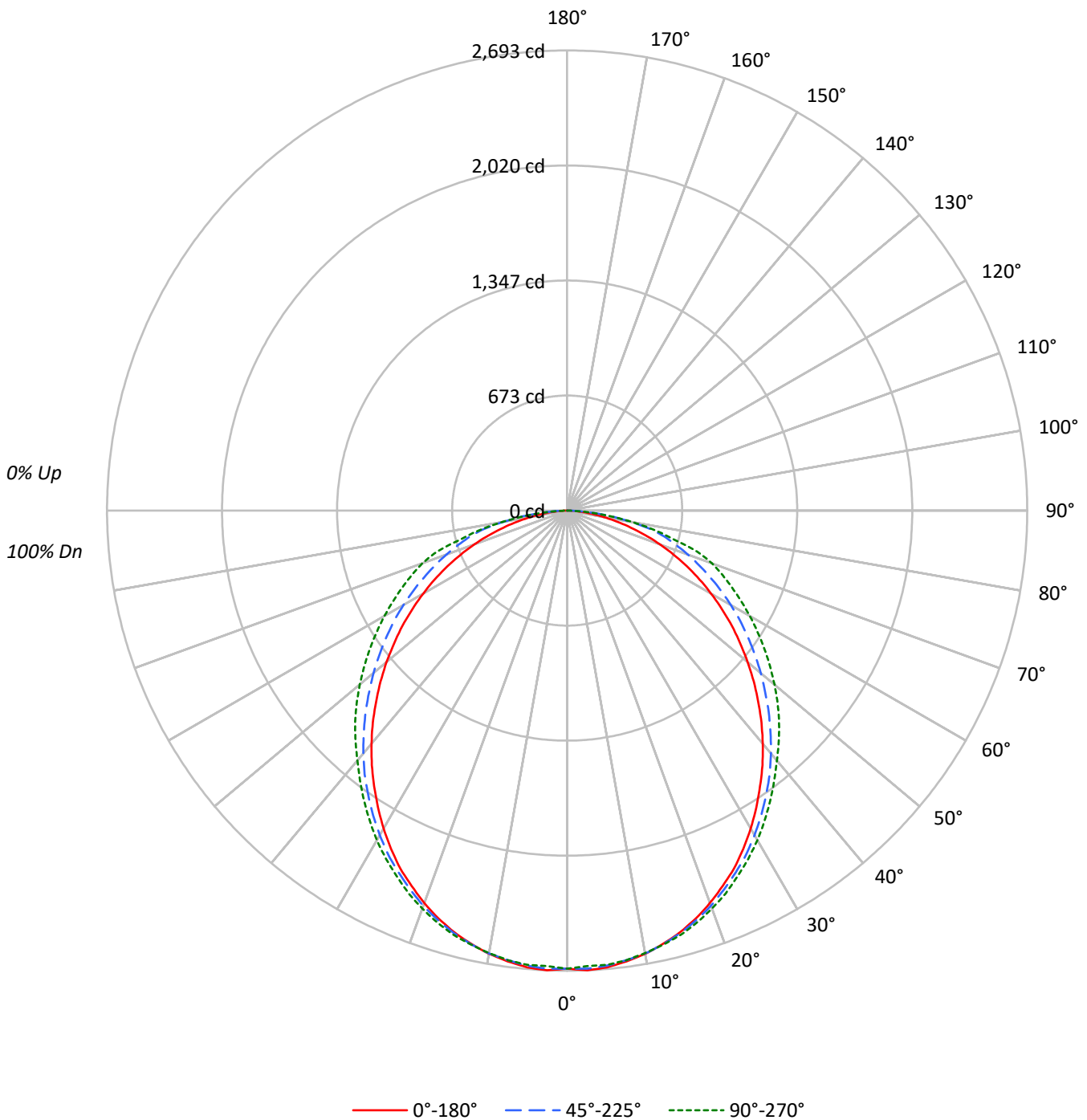
Input Watts (W): 54.963
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3607	3607	3607
5°	3624	3611	3604
10°	3599	3595	3592
15°	3559	3566	3580
20°	3500	3524	3549
25°	3431	3468	3504
30°	3338	3407	3461
35°	3234	3335	3404
40°	3129	3259	3354
45°	3010	3174	3338
50°	2888	3095	3316
55°	2763	3029	3306
60°	2619	2977	3322
65°	2463	2942	3389
70°	2268	2956	3548
75°	2011	3061	3305
80°	1680	2902	2978
85°	1255	2320	2130



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.5	3.4
10°-20°	720.8	9.7
20°-30°	1074.2	14.5
30°-40°	1264.5	17.1
40°-50°	1285.0	17.4
50°-60°	1155.3	15.6
60°-70°	912.7	12.3
70°-80°	579.0	7.8
80°-90°	159.8	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°	2048.5	27.7
0°-40°	3313.0	44.7
0°-60°	5753.4	77.7
0°-90°	7405.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7405.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2681	2681	2681	2681	2681	
5°	2683	2661	2673	2668	2668	254
15°	2555	2543	2560	2567	2570	720
25°	2311	2309	2336	2351	2360	1063
35°	1969	1981	2030	2052	2072	1232
45°	1582	1604	1668	1717	1754	1221
55°	1178	1207	1291	1375	1409	1052
65°	774	813	924	1025	1064	766
75°	387	453	589	641	636	412
85°	81	140	150	138	138	100
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2680.7	2680.7	2680.7	2680.7	2680.7
2.5°	2693.1	2673.4	2683.2	2678.3	2668.4
5°	2683.2	2661.0	2673.4	2668.4	2668.4
7.5°	2661.0	2643.8	2653.6	2651.2	2653.6
10°	2633.9	2616.7	2631.5	2631.5	2629.0
12.5°	2597.0	2582.2	2599.4	2599.4	2601.9
15°	2555.1	2542.8	2560.0	2567.4	2569.9
17.5°	2503.3	2491.0	2513.2	2520.6	2528.0
20°	2444.2	2439.3	2461.5	2468.8	2478.7
22.5°	2377.7	2377.7	2399.9	2409.7	2424.5
25°	2311.2	2308.7	2335.8	2350.6	2360.4
27.5°	2232.3	2234.8	2269.3	2284.1	2296.4
30°	2148.5	2153.5	2192.9	2210.1	2227.4
32.5°	2059.8	2069.7	2114.0	2133.8	2151.0
35°	1968.7	1981.0	2030.3	2052.4	2072.2
37.5°	1877.5	1894.8	1946.5	1968.7	1990.8
40°	1781.4	1796.2	1855.3	1882.4	1909.5
42.5°	1682.9	1702.6	1761.7	1801.1	1833.2
45°	1581.8	1604.0	1668.1	1717.4	1754.3
47.5°	1480.8	1510.4	1572.0	1638.5	1670.5
50°	1379.8	1409.4	1478.4	1552.3	1584.3
52.5°	1276.3	1305.9	1384.7	1461.1	1495.6
55°	1177.8	1207.3	1291.1	1374.9	1409.4
57.5°	1074.3	1106.3	1199.9	1286.2	1320.7
60°	973.2	1005.3	1106.3	1197.5	1234.4
62.5°	874.7	909.2	1015.1	1111.2	1148.2
65°	773.7	813.1	924.0	1025.0	1064.4
67.5°	675.1	719.5	835.3	941.2	983.1
70°	576.6	628.3	751.5	859.9	901.8
72.5°	480.5	537.1	667.7	776.1	798.3
75°	386.8	453.4	588.9	640.6	635.7
77.5°	298.1	372.1	500.2	510.0	524.8
80°	216.8	298.1	374.5	394.2	384.4
82.5°	142.9	224.2	268.6	258.7	256.2
85°	81.3	140.4	150.3	138.0	138.0
87.5°	34.5	56.7	49.3	37.0	34.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)