

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: P261331

Luminaire Tested: **24CZ-LD5-70-S-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261331
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-L92765-W2A1-U-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (336) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6154.0 lumens
Efficiency: N/A
Efficacy: 114.5 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

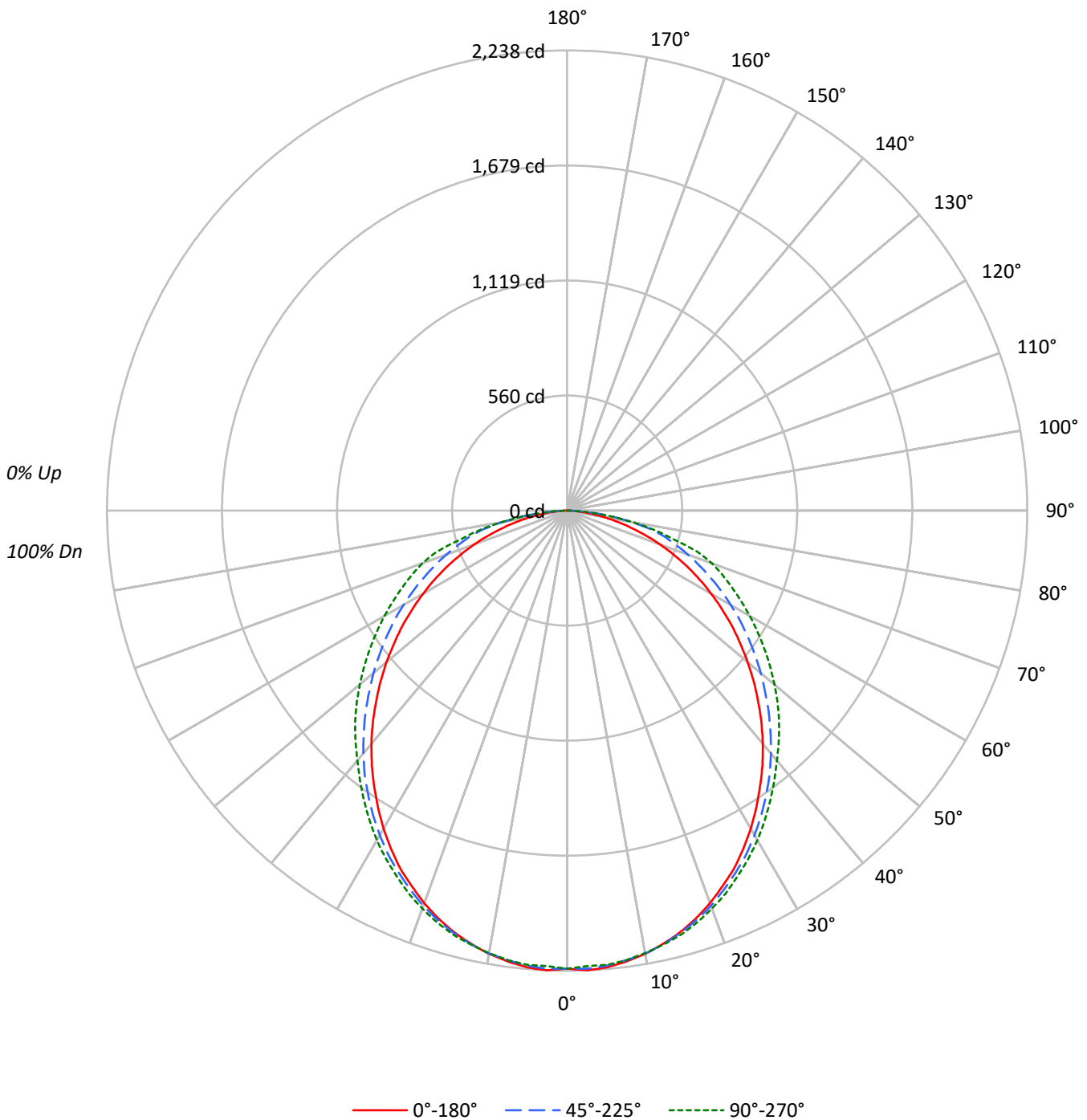
Input Watts (W): 53.754
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2998	2998	2998
5°	3012	3001	2995
10°	2991	2988	2985
15°	2958	2964	2975
20°	2908	2929	2950
25°	2851	2882	2912
30°	2774	2831	2876
35°	2687	2771	2829
40°	2600	2708	2787
45°	2501	2638	2774
50°	2400	2572	2756
55°	2296	2517	2748
60°	2176	2474	2761
65°	2047	2445	2816
70°	1885	2457	2948
75°	1671	2544	2746
80°	1396	2411	2475
85°	1044	1928	1771



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.6	3.4
10°-20°	599.1	9.7
20°-30°	892.7	14.5
30°-40°	1050.9	17.1
40°-50°	1067.9	17.4
50°-60°	960.2	15.6
60°-70°	758.5	12.3
70°-80°	481.2	7.8
80°-90°	132.8	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°	1702.4	27.7
0°-40°	2753.3	44.7
0°-60°	4781.4	77.7
0°-90°	6154.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6154.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2228	2228	2228	2228	2228	
5°	2230	2212	2222	2218	2218	211
15°	2123	2113	2128	2134	2136	598
25°	1921	1919	1941	1954	1962	883
35°	1636	1646	1687	1706	1722	1024
45°	1315	1333	1386	1427	1458	1014
55°	979	1003	1073	1143	1171	874
65°	643	676	768	852	885	637
75°	322	377	489	532	528	342
85°	68	117	125	115	115	83
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2227.9	2227.9	2227.9	2227.9	2227.9
2.5°	2238.1	2221.7	2229.9	2225.8	2217.6
5°	2229.9	2211.5	2221.7	2217.6	2217.6
7.5°	2211.5	2197.1	2205.3	2203.3	2205.3
10°	2189.0	2174.6	2186.9	2186.9	2184.9
12.5°	2158.2	2146.0	2160.3	2160.3	2162.3
15°	2123.4	2113.2	2127.5	2133.7	2135.7
17.5°	2080.4	2070.2	2088.6	2094.8	2100.9
20°	2031.3	2027.2	2045.6	2051.8	2060.0
22.5°	1976.0	1976.0	1994.4	2002.6	2014.9
25°	1920.7	1918.7	1941.2	1953.5	1961.7
27.5°	1855.2	1857.2	1885.9	1898.2	1908.4
30°	1785.6	1789.7	1822.4	1836.8	1851.1
32.5°	1711.8	1720.0	1756.9	1773.3	1787.6
35°	1636.1	1646.3	1687.3	1705.7	1722.1
37.5°	1560.3	1574.7	1617.7	1636.1	1654.5
40°	1480.5	1492.7	1541.9	1564.4	1586.9
42.5°	1398.6	1414.9	1464.1	1496.8	1523.5
45°	1314.6	1333.0	1386.3	1427.2	1457.9
47.5°	1230.6	1255.2	1306.4	1361.7	1388.3
50°	1146.7	1171.3	1228.6	1290.0	1316.6
52.5°	1060.7	1085.3	1150.8	1214.3	1242.9
55°	978.8	1003.4	1073.0	1142.6	1171.3
57.5°	892.8	919.4	997.2	1068.9	1097.5
60°	808.8	835.4	919.4	995.2	1025.9
62.5°	726.9	755.6	843.6	923.5	954.2
65°	643.0	675.7	767.9	851.8	884.6
67.5°	561.1	597.9	694.2	782.2	817.0
70°	479.2	522.2	624.5	714.6	749.4
72.5°	399.3	446.4	554.9	645.0	663.4
75°	321.5	376.8	489.4	532.4	528.3
77.5°	247.8	309.2	415.7	423.9	436.2
80°	180.2	247.8	311.2	327.6	319.4
82.5°	118.8	186.3	223.2	215.0	213.0
85°	67.6	116.7	124.9	114.7	114.7
87.5°	28.7	47.1	41.0	30.7	28.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)