

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: P261310

Luminaire Tested: **24CZ-LD5-55-S-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261310
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-LD5-55-S-UNV-L92765-W2A1-U-6500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (336) 90 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5372.0 lumens
Efficiency: N/A
Efficacy: 128.1 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

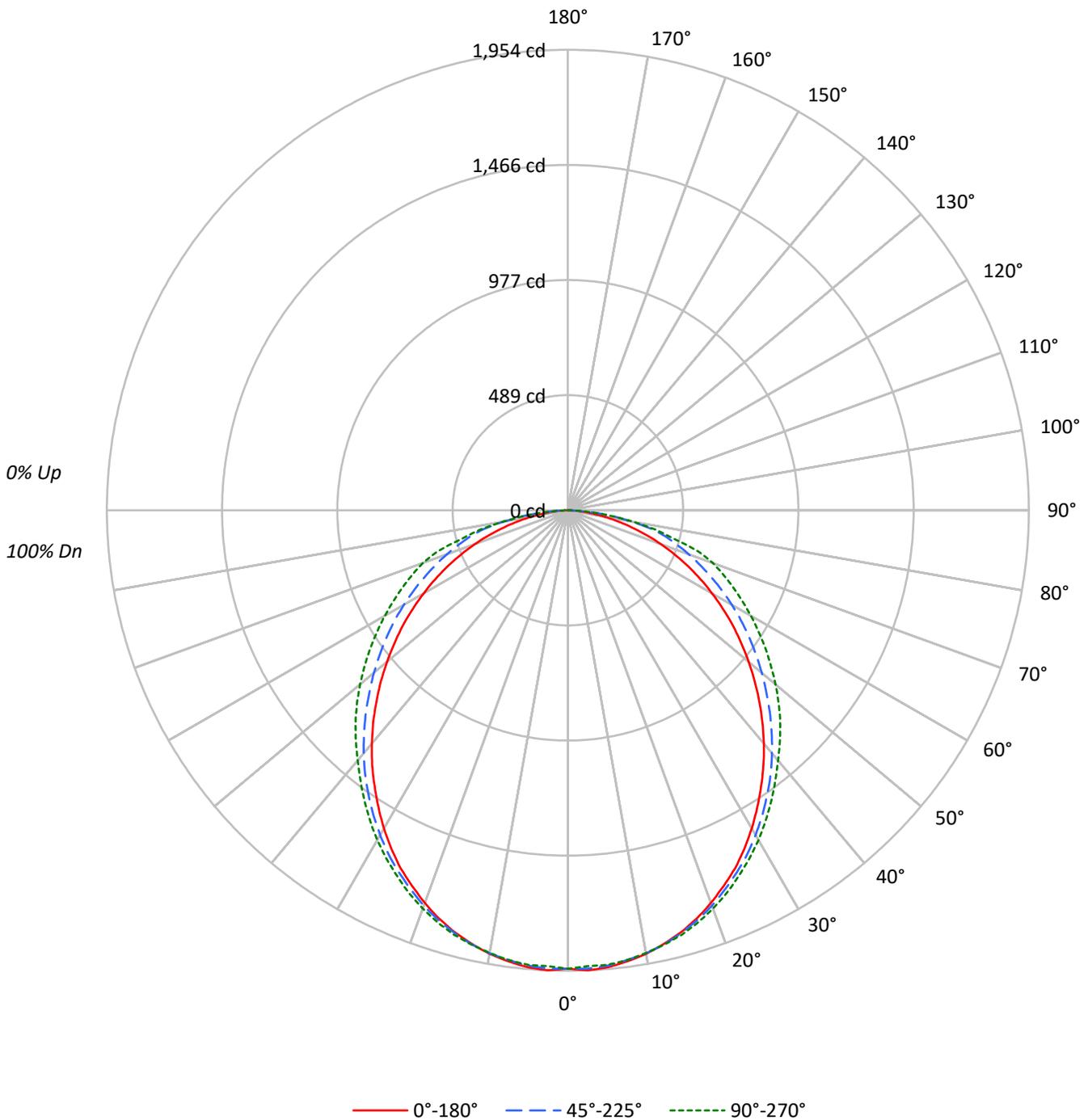
Input Watts (W): 41.943
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2617	2617	2617
5°	2629	2619	2615
10°	2611	2608	2606
15°	2582	2587	2597
20°	2539	2557	2575
25°	2489	2516	2542
30°	2422	2472	2511
35°	2346	2419	2469
40°	2270	2364	2433
45°	2184	2303	2422
50°	2095	2245	2406
55°	2004	2197	2398
60°	1900	2160	2410
65°	1787	2134	2458
70°	1646	2145	2574
75°	1459	2221	2398
80°	1219	2105	2160
85°	911	1683	1545



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.9	3.4
10°-20°	522.9	9.7
20°-30°	779.3	14.5
30°-40°	917.4	17.1
40°-50°	932.2	17.4
50°-60°	838.2	15.6
60°-70°	662.2	12.3
70°-80°	420.1	7.8
80°-90°	115.9	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°	1486.1	27.7
0°-40°	2403.5	44.7
0°-60°	4173.8	77.7
0°-90°	5372.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5372.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1945	1945	1945	1945	1945	
5°	1947	1930	1939	1936	1936	185
15°	1854	1845	1857	1862	1864	522
25°	1677	1675	1694	1705	1712	771
35°	1428	1437	1473	1489	1503	894
45°	1148	1164	1210	1246	1273	885
55°	854	876	937	997	1022	763
65°	561	590	670	744	772	556
75°	281	329	427	465	461	299
85°	59	102	109	100	100	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1944.8	1944.8	1944.8	1944.8	1944.8
2.5°	1953.7	1939.4	1946.6	1943.0	1935.8
5°	1946.6	1930.5	1939.4	1935.8	1935.8
7.5°	1930.5	1918.0	1925.1	1923.3	1925.1
10°	1910.8	1898.3	1909.0	1909.0	1907.2
12.5°	1884.0	1873.3	1885.8	1885.8	1887.6
15°	1853.6	1844.7	1857.2	1862.5	1864.3
17.5°	1816.1	1807.1	1823.2	1828.6	1833.9
20°	1773.2	1769.6	1785.7	1791.0	1798.2
22.5°	1724.9	1724.9	1741.0	1748.1	1758.9
25°	1676.6	1674.9	1694.5	1705.2	1712.4
27.5°	1619.4	1621.2	1646.3	1657.0	1665.9
30°	1558.7	1562.2	1590.8	1603.4	1615.9
32.5°	1494.3	1501.5	1533.6	1547.9	1560.5
35°	1428.2	1437.1	1472.9	1489.0	1503.3
37.5°	1362.0	1374.6	1412.1	1428.2	1444.3
40°	1292.3	1303.1	1346.0	1365.6	1385.3
42.5°	1220.8	1235.1	1278.0	1306.6	1329.9
45°	1147.6	1163.6	1210.1	1245.9	1272.7
47.5°	1074.3	1095.7	1140.4	1188.7	1211.9
50°	1001.0	1022.4	1072.5	1126.1	1149.3
52.5°	925.9	947.4	1004.6	1060.0	1085.0
55°	854.4	875.9	936.6	997.4	1022.4
57.5°	779.3	802.6	870.5	933.1	958.1
60°	706.0	729.3	802.6	868.7	895.5
62.5°	634.6	659.6	736.4	806.1	833.0
65°	561.3	589.9	670.3	743.6	772.2
67.5°	489.8	521.9	606.0	682.8	713.2
70°	418.3	455.8	545.2	623.8	654.2
72.5°	348.6	389.7	484.4	563.1	579.1
75°	280.6	328.9	427.2	464.7	461.2
77.5°	216.3	269.9	362.9	370.0	380.7
80°	157.3	216.3	271.7	286.0	278.8
82.5°	103.7	162.7	194.8	187.7	185.9
85°	59.0	101.9	109.0	100.1	100.1
87.5°	25.0	41.1	35.7	26.8	25.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)