

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: P260999

Luminaire Tested: **24CZ-LD5-55-S-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260999
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-L83050-W2A1-U-4000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (336) 80 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5944.0 lumens
Efficiency: N/A
Efficacy: 145.0 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

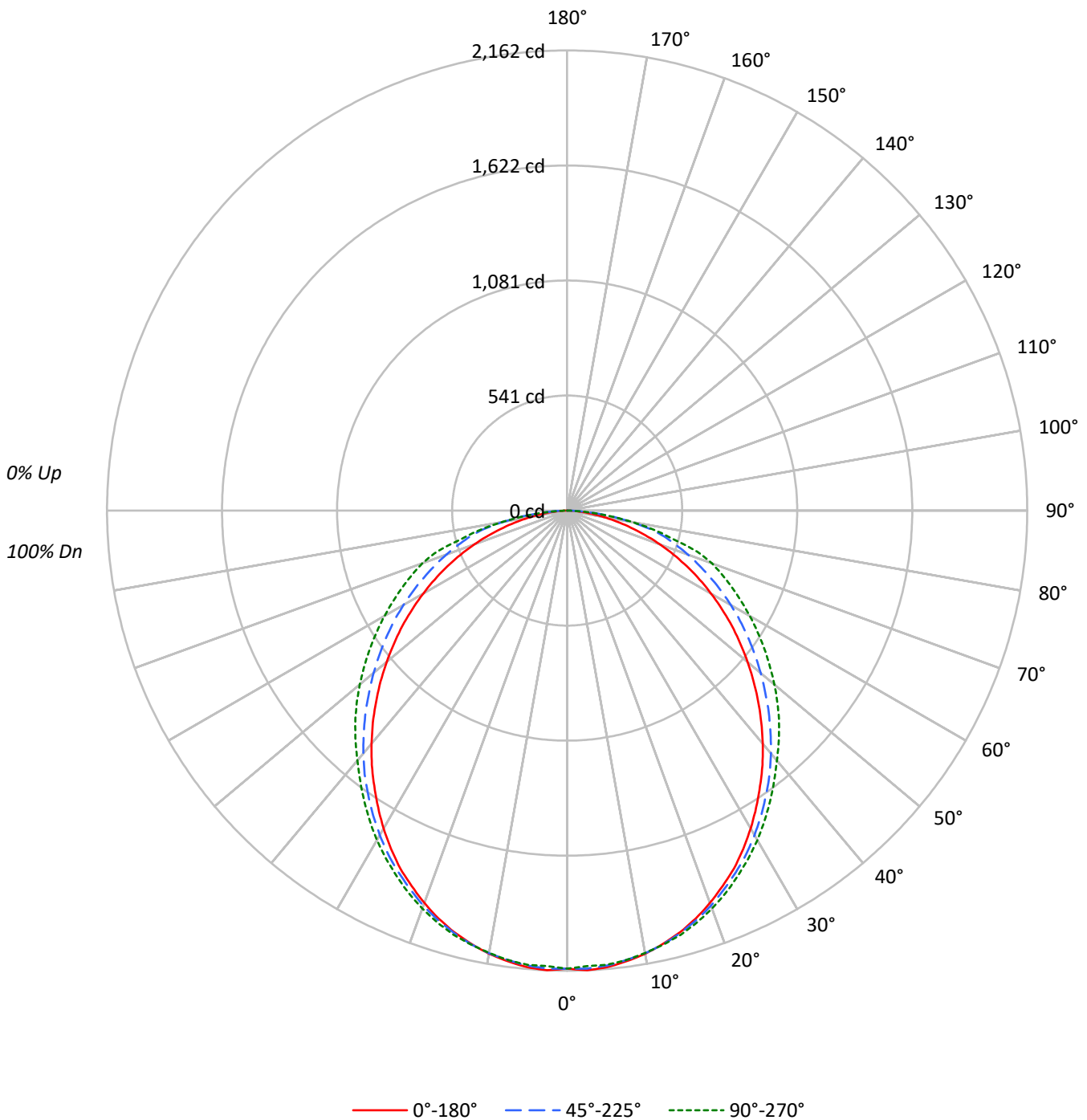
Input Watts (W): 41.004909
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2895	2895	2895
5°	2909	2898	2893
10°	2889	2886	2883
15°	2857	2862	2873
20°	2809	2829	2849
25°	2754	2783	2813
30°	2679	2735	2778
35°	2596	2677	2732
40°	2511	2616	2692
45°	2416	2548	2680
50°	2318	2484	2662
55°	2218	2431	2654
60°	2102	2390	2666
65°	1977	2361	2720
70°	1821	2373	2848
75°	1614	2457	2653
80°	1348	2329	2390
85°	1008	1862	1711



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.4	3.4
10°-20°	578.6	9.7
20°-30°	862.3	14.5
30°-40°	1015.0	17.1
40°-50°	1031.5	17.4
50°-60°	927.4	15.6
60°-70°	732.7	12.3
70°-80°	464.8	7.8
80°-90°	128.3	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°	1644.3	27.7
0°-40°	2659.4	44.7
0°-60°	4618.2	77.7
0°-90°	5944.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5944.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2152	2152	2152	2152	2152	
5°	2154	2136	2146	2142	2142	204
15°	2051	2041	2055	2061	2063	578
25°	1855	1853	1875	1887	1895	853
35°	1580	1590	1630	1648	1663	989
45°	1270	1288	1339	1378	1408	980
55°	945	969	1036	1104	1131	844
65°	621	653	742	823	854	615
75°	310	364	473	514	510	331
85°	65	113	121	111	111	80
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2151.8	2151.8	2151.8	2151.8	2151.8
2.5°	2161.7	2145.9	2153.8	2149.9	2141.9
5°	2153.8	2136.0	2145.9	2141.9	2141.9
7.5°	2136.0	2122.2	2130.1	2128.1	2130.1
10°	2114.3	2100.4	2112.3	2112.3	2110.3
12.5°	2084.6	2072.7	2086.6	2086.6	2088.5
15°	2051.0	2041.1	2054.9	2060.9	2062.8
17.5°	2009.4	1999.5	2017.3	2023.3	2029.2
20°	1962.0	1958.0	1975.8	1981.7	1989.7
22.5°	1908.6	1908.6	1926.4	1934.3	1946.1
25°	1855.2	1853.2	1874.9	1886.8	1894.7
27.5°	1791.9	1793.9	1821.5	1833.4	1843.3
30°	1724.6	1728.6	1760.2	1774.1	1787.9
32.5°	1653.4	1661.3	1696.9	1712.8	1726.6
35°	1580.3	1590.1	1629.7	1647.5	1663.3
37.5°	1507.1	1520.9	1562.5	1580.3	1598.1
40°	1429.9	1441.8	1489.3	1511.0	1532.8
42.5°	1350.8	1366.7	1414.1	1445.8	1471.5
45°	1269.7	1287.5	1339.0	1378.5	1408.2
47.5°	1188.7	1212.4	1261.8	1315.2	1340.9
50°	1107.6	1131.3	1186.7	1246.0	1271.7
52.5°	1024.5	1048.2	1111.5	1172.8	1200.5
55°	945.4	969.1	1036.4	1103.6	1131.3
57.5°	862.3	888.0	963.2	1032.4	1060.1
60°	781.2	806.9	888.0	961.2	990.9
62.5°	702.1	729.8	814.9	892.0	921.7
65°	621.0	652.7	741.7	822.8	854.4
67.5°	541.9	577.5	670.5	755.5	789.1
70°	462.8	504.3	603.2	690.2	723.9
72.5°	385.7	431.2	536.0	623.0	640.8
75°	310.5	363.9	472.7	514.2	510.3
77.5°	239.3	298.6	401.5	409.4	421.3
80°	174.0	239.3	300.6	316.4	308.5
82.5°	114.7	180.0	215.6	207.7	205.7
85°	65.3	112.7	120.6	110.8	110.8
87.5°	27.7	45.5	39.6	29.7	27.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)