

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: P261383

Luminaire Tested: **24CZ-LD5-50SE-S-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261383
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-LD5-50SE-S-UNV-L92765-W2A1-U-2700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3998.0 lumens
Efficiency: N/A
Efficacy: 100.9 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

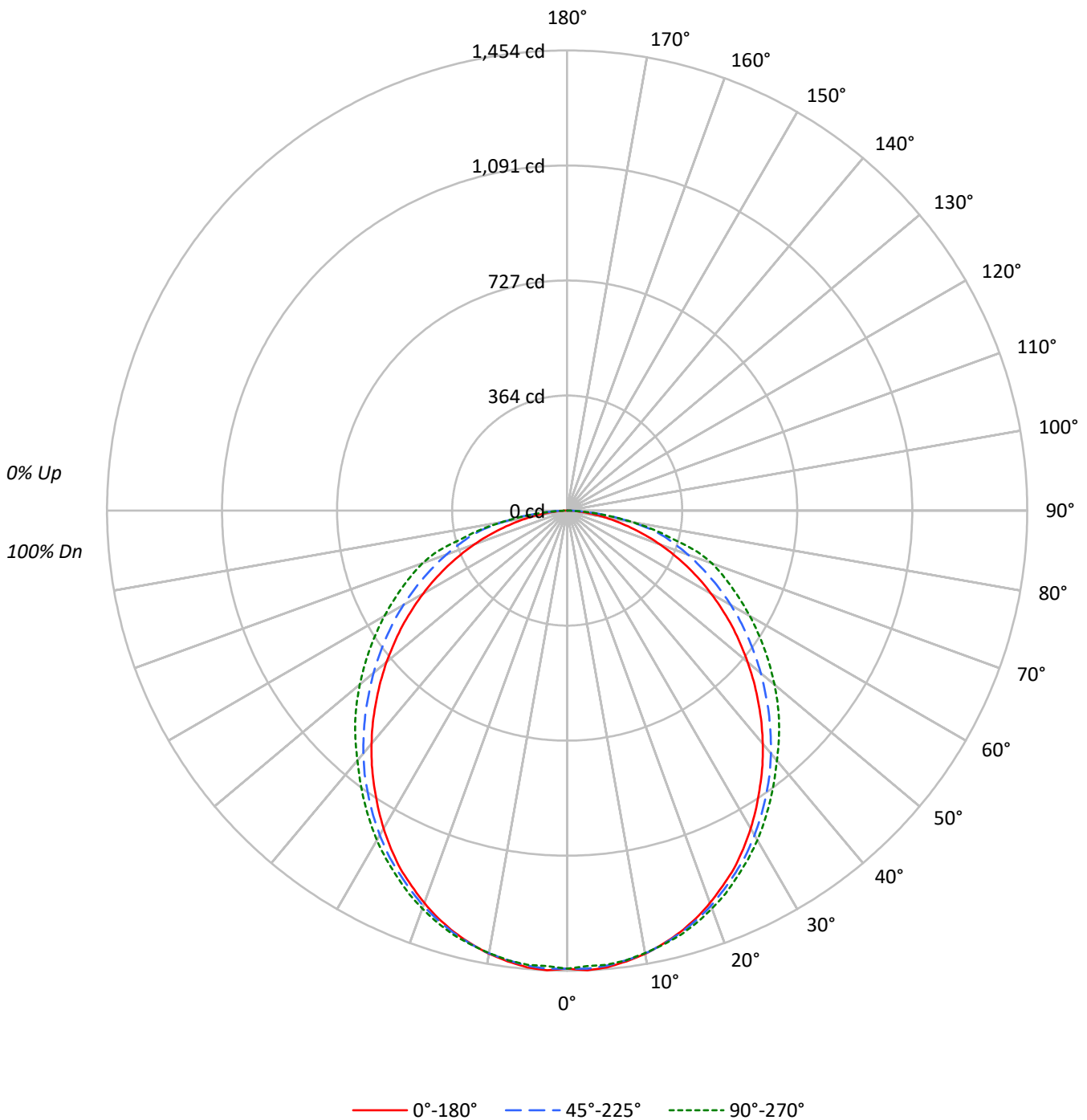
Input Watts (W): 39.618
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1947	1947	1947
5°	1957	1949	1946
10°	1943	1941	1939
15°	1922	1925	1933
20°	1889	1903	1916
25°	1852	1872	1892
30°	1802	1840	1868
35°	1746	1801	1838
40°	1689	1759	1811
45°	1625	1714	1802
50°	1559	1671	1791
55°	1492	1635	1785
60°	1414	1607	1794
65°	1330	1588	1830
70°	1225	1596	1915
75°	1086	1653	1784
80°	907	1567	1608
85°	678	1252	1150



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.8	3.4
10°-20°	389.2	9.7
20°-30°	580.0	14.5
30°-40°	682.7	17.1
40°-50°	693.8	17.4
50°-60°	623.8	15.6
60°-70°	492.8	12.3
70°-80°	312.6	7.8
80°-90°	86.3	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°	1106.0	27.7
0°-40°	1788.7	44.7
0°-60°	3106.3	77.7
0°-90°	3998.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3998.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1447	1447	1447	1447	1447	
5°	1449	1437	1443	1441	1441	137
15°	1380	1373	1382	1386	1388	389
25°	1248	1246	1261	1269	1274	574
35°	1063	1070	1096	1108	1119	665
45°	854	866	901	927	947	659
55°	636	652	697	742	761	568
65°	418	439	499	553	575	414
75°	209	245	318	346	343	222
85°	44	76	81	74	74	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1447.3	1447.3	1447.3	1447.3	1447.3
2.5°	1454.0	1443.4	1448.7	1446.0	1440.7
5°	1448.7	1436.7	1443.4	1440.7	1440.7
7.5°	1436.7	1427.4	1432.7	1431.4	1432.7
10°	1422.1	1412.8	1420.7	1420.7	1419.4
12.5°	1402.1	1394.1	1403.5	1403.5	1404.8
15°	1379.5	1372.9	1382.2	1386.2	1387.5
17.5°	1351.6	1344.9	1356.9	1360.9	1364.9
20°	1319.6	1317.0	1329.0	1332.9	1338.3
22.5°	1283.7	1283.7	1295.7	1301.0	1309.0
25°	1247.8	1246.5	1261.1	1269.1	1274.4
27.5°	1205.2	1206.6	1225.2	1233.2	1239.8
30°	1160.0	1162.7	1184.0	1193.3	1202.6
32.5°	1112.1	1117.4	1141.4	1152.0	1161.3
35°	1062.9	1069.5	1096.2	1108.1	1118.8
37.5°	1013.7	1023.0	1050.9	1062.9	1074.9
40°	961.8	969.8	1001.7	1016.3	1031.0
42.5°	908.6	919.2	951.2	972.4	989.7
45°	854.0	866.0	900.6	927.2	947.2
47.5°	799.5	815.5	848.7	884.6	901.9
50°	745.0	760.9	798.2	838.1	855.4
52.5°	689.1	705.1	747.6	788.9	807.5
55°	635.9	651.8	697.1	742.3	760.9
57.5°	580.0	597.3	647.8	694.4	713.0
60°	525.5	542.8	597.3	646.5	666.5
62.5°	472.3	490.9	548.1	600.0	619.9
65°	417.7	439.0	498.9	553.4	574.7
67.5°	364.5	388.4	451.0	508.2	530.8
70°	311.3	339.2	405.7	464.3	486.9
72.5°	259.4	290.0	360.5	419.0	431.0
75°	208.9	244.8	317.9	345.9	343.2
77.5°	161.0	200.9	270.0	275.4	283.4
80°	117.1	161.0	202.2	212.8	207.5
82.5°	77.2	121.1	145.0	139.7	138.3
85°	43.9	75.8	81.1	74.5	74.5
87.5°	18.6	30.6	26.6	20.0	18.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)