

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: P260697

Luminaire Tested: **24CZ-LD5-50SE-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260697
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25697)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-50SE-UNV-L93050-W2A1-U-3000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3891.6 lumens
Efficiency: N/A
Efficacy: 95.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.25 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

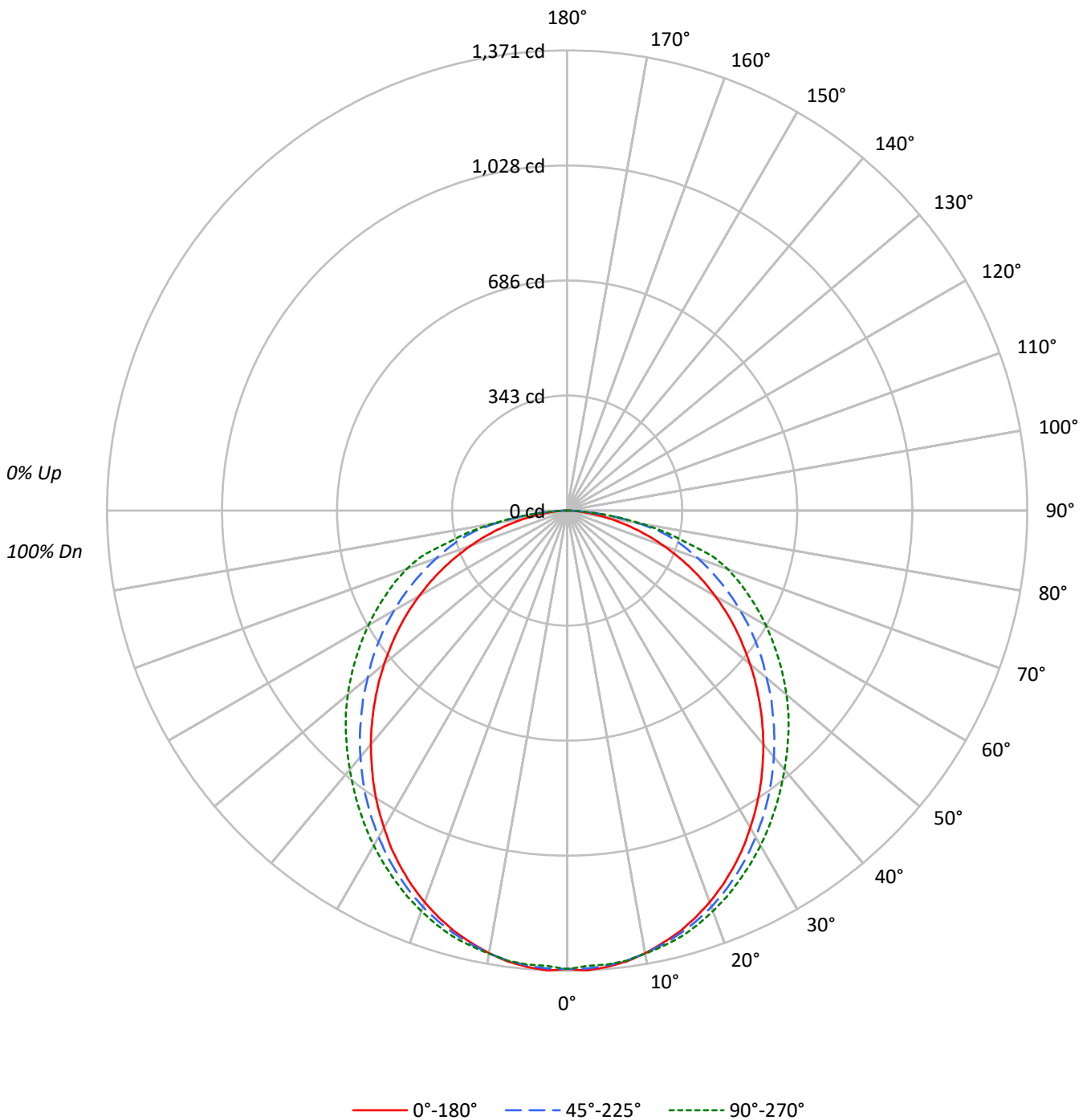
Input Watts (W): 40.624353
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	32
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	31	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1838	1838	1838
5°	1843	1837	1834
10°	1830	1830	1831
15°	1808	1817	1830
20°	1778	1799	1818
25°	1741	1774	1804
30°	1695	1745	1791
35°	1648	1716	1777
40°	1598	1683	1769
45°	1544	1650	1775
50°	1489	1623	1785
55°	1435	1613	1803
60°	1370	1603	1839
65°	1298	1604	1900
70°	1200	1630	2002
75°	1074	1704	1905
80°	898	1631	1745
85°	679	1255	1193



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.1	3.3
10°-20°	367.3	9.4
20°-30°	549.1	14.1
30°-40°	651.4	16.7
40°-50°	670.5	17.2
50°-60°	615.1	15.8
60°-70°	497.3	12.8
70°-80°	322.8	8.3
80°-90°	89.0	2.3
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°	1045.5	26.9
0°-40°	1696.9	43.6
0°-60°	2982.5	76.6
0°-90°	3891.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3891.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1366	1366	1366	1366	1366	
5°	1364	1355	1360	1359	1358	129
15°	1298	1292	1304	1310	1314	366
25°	1172	1174	1195	1206	1215	540
35°	1003	1011	1045	1067	1082	627
45°	811	825	867	909	933	626
55°	612	630	688	744	769	546
65°	408	432	504	570	597	403
75°	206	245	328	366	366	219
85°	44	75	81	79	77	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1365.7	1365.7	1365.7	1365.7	1365.7
2.5°	1371.1	1360.4	1365.7	1364.4	1357.7
5°	1364.4	1355.1	1360.4	1359.1	1357.7
7.5°	1355.1	1345.7	1352.4	1351.1	1352.4
10°	1339.1	1331.1	1339.1	1340.4	1340.4
12.5°	1319.1	1312.4	1323.1	1325.8	1328.4
15°	1297.8	1292.5	1304.4	1309.8	1313.8
17.5°	1271.1	1267.1	1281.8	1288.5	1293.8
20°	1241.8	1240.5	1256.5	1263.1	1269.8
22.5°	1208.5	1208.5	1227.2	1235.2	1244.5
25°	1172.5	1173.9	1195.2	1205.8	1215.2
27.5°	1133.9	1135.2	1160.5	1173.9	1184.5
30°	1091.3	1096.6	1123.2	1140.6	1152.5
32.5°	1048.6	1055.3	1084.6	1104.6	1117.9
35°	1003.3	1011.3	1044.6	1067.3	1081.9
37.5°	956.7	966.0	1002.0	1027.3	1044.6
40°	910.0	920.7	958.0	987.3	1007.3
42.5°	860.7	872.7	914.0	948.7	970.0
45°	811.4	824.8	867.4	908.7	932.7
47.5°	762.1	778.1	823.4	868.7	894.1
50°	711.5	727.5	775.5	827.4	852.8
52.5°	660.9	679.5	732.8	786.1	811.4
55°	611.6	630.2	687.5	743.5	768.8
57.5°	561.0	579.6	642.2	700.9	726.2
60°	509.0	530.3	595.6	655.6	683.5
62.5°	458.4	481.0	550.3	614.2	640.9
65°	407.7	431.7	503.7	570.3	596.9
67.5°	355.8	383.7	458.4	526.3	554.3
70°	305.1	335.8	414.4	482.3	509.0
72.5°	255.8	289.1	370.4	439.7	455.7
75°	206.5	245.2	327.8	366.4	366.4
77.5°	159.9	202.5	279.8	294.5	302.5
80°	115.9	162.6	210.5	227.8	225.2
82.5°	77.3	123.9	150.6	150.6	146.6
85°	44.0	74.6	81.3	78.6	77.3
87.5°	18.7	28.0	25.3	20.0	17.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)