

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: P263516

Luminaire Tested: **24CZ-LD5-50-RDP-UNV-L83050-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263516
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25696)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-50-RDP-UNV-L83050-W2A1-U-5000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3703.0 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

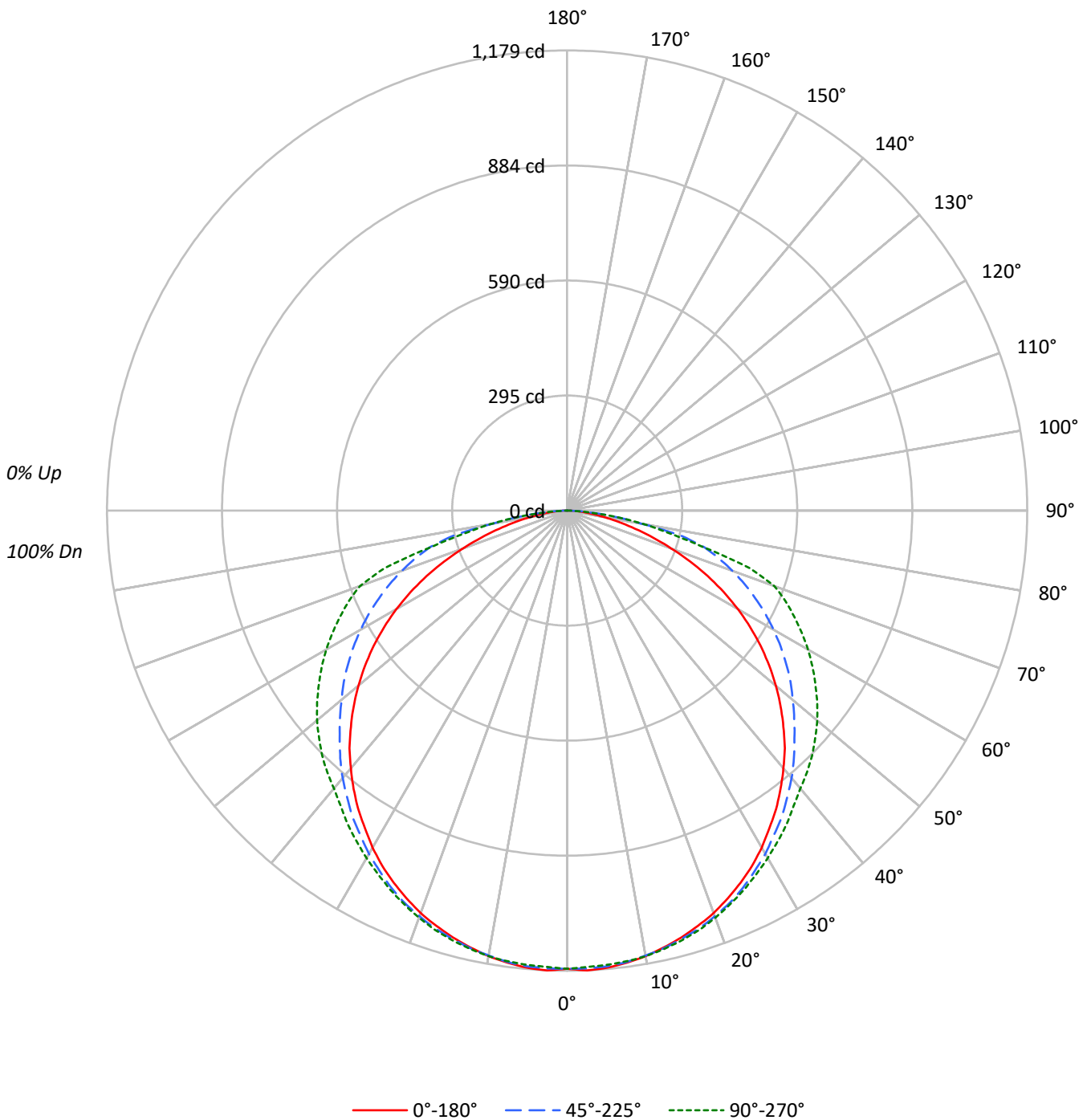
Input Watts (W): 37.461888
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	98	94	105	101	97	93	96	93	90	92	90	87	89	87	84	82
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67
3	89	78	69	62	86	76	68	62	73	66	60	70	64	59	67	62	58	56
4	81	68	59	52	78	67	58	52	64	57	51	62	56	50	60	54	50	47
5	74	61	51	45	72	60	51	44	57	50	44	55	49	43	54	48	43	41
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	34	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	27
9	55	41	33	27	53	41	32	27	39	32	27	38	32	27	37	31	27	25
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1579	1579	1579
5°	1588	1583	1578
10°	1584	1581	1584
15°	1577	1582	1587
20°	1571	1584	1589
25°	1561	1583	1591
30°	1549	1577	1597
35°	1533	1575	1611
40°	1514	1572	1633
45°	1491	1568	1689
50°	1461	1580	1751
55°	1420	1608	1822
60°	1359	1643	1918
65°	1265	1695	2043
70°	1119	1771	2223
75°	938	1895	1867
80°	748	1497	1554
85°	591	1013	929



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.3	3.0
10°-20°	320.4	8.7
20°-30°	489.4	13.2
30°-40°	598.4	16.2
40°-50°	640.5	17.3
50°-60°	614.3	16.6
60°-70°	518.7	14.0
70°-80°	331.5	9.0
80°-90°	78.4	2.1
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°	921.2	24.9
0°-40°	1519.6	41.0
0°-60°	2774.4	74.9
0°-90°	3703.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3703.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1174	1174	1174	1174	1174	
5°	1176	1168	1172	1170	1168	112
15°	1132	1128	1136	1139	1139	320
25°	1052	1050	1066	1070	1072	485
35°	933	941	959	972	981	584
45°	784	797	824	862	888	605
55°	605	625	685	747	776	540
65°	397	436	532	607	642	392
75°	180	257	365	372	359	194
85°	38	64	66	64	60	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1173.9	1173.9	1173.9	1173.9	1173.9
2.5°	1179.4	1172.1	1173.9	1173.9	1170.2
5°	1175.7	1168.4	1172.1	1170.2	1168.4
7.5°	1168.4	1162.9	1166.6	1166.6	1164.8
10°	1159.3	1153.8	1157.5	1159.3	1159.3
12.5°	1146.5	1142.9	1148.4	1148.4	1150.2
15°	1132.0	1128.3	1135.6	1139.2	1139.2
17.5°	1115.6	1113.7	1122.8	1124.7	1126.5
20°	1097.3	1095.5	1106.4	1106.4	1110.1
22.5°	1075.5	1073.6	1088.2	1088.2	1091.9
25°	1051.8	1049.9	1066.3	1070.0	1071.8
27.5°	1026.2	1024.4	1040.8	1046.3	1049.9
30°	997.1	997.1	1015.3	1022.6	1028.1
32.5°	964.3	969.7	986.1	997.1	1004.4
35°	933.3	940.6	958.8	971.6	980.7
37.5°	898.6	905.9	926.0	942.4	953.3
40°	862.2	871.3	895.0	913.2	929.6
42.5°	825.7	834.8	860.4	887.7	909.6
45°	783.8	796.6	823.9	862.2	887.7
47.5°	741.9	754.6	789.3	836.7	862.2
50°	698.1	712.7	754.6	809.3	836.7
52.5°	652.6	669.0	721.8	780.2	807.5
55°	605.2	625.2	685.4	747.3	776.5
57.5°	556.0	577.8	648.9	714.5	745.5
60°	504.9	532.3	610.6	679.9	712.7
62.5°	452.1	484.9	572.4	643.4	678.1
65°	397.4	435.6	532.3	607.0	641.6
67.5°	340.9	391.9	492.2	570.5	605.2
70°	284.4	344.5	450.2	530.4	565.1
72.5°	231.5	300.8	408.3	483.0	490.3
75°	180.5	257.0	364.6	371.9	359.1
77.5°	134.9	213.3	300.8	268.0	266.1
80°	96.6	171.3	193.2	198.7	200.5
82.5°	63.8	129.4	125.8	129.4	127.6
85°	38.3	63.8	65.6	63.8	60.2
87.5°	18.2	23.7	18.2	16.4	14.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)