

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: P263532

Luminaire Tested: **24CZ-LD5-70-RDP-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263532
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-LD5-70-RDP-UNV-L83050-W2A1-U-3000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4631.0 lumens
Efficiency: N/A
Efficacy: 86.5 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

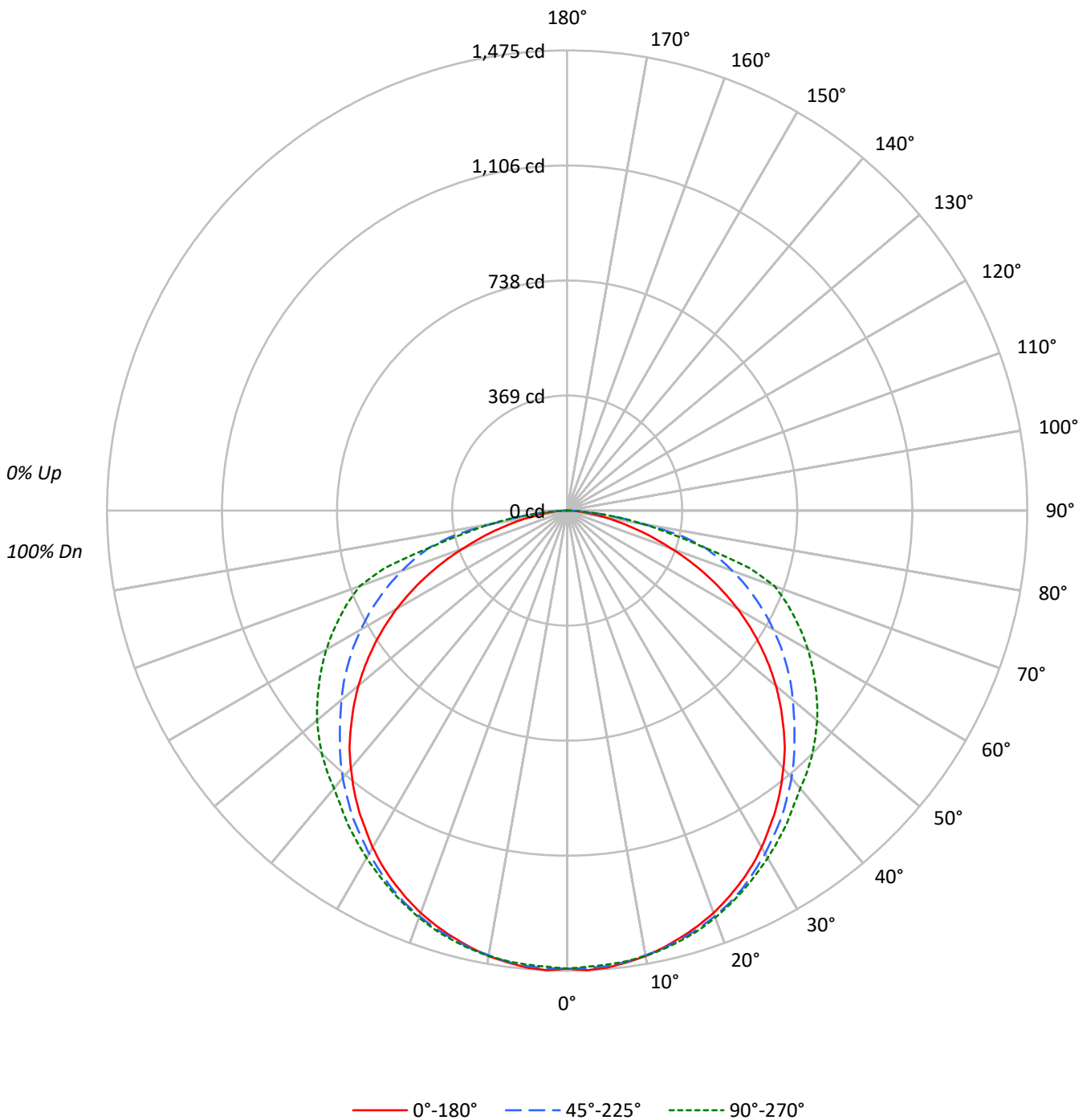
Input Watts (W): 53.553678
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1975	1975	1975
5°	1986	1980	1974
10°	1981	1978	1981
15°	1972	1978	1985
20°	1965	1981	1988
25°	1953	1980	1990
30°	1937	1973	1998
35°	1917	1970	2014
40°	1894	1966	2042
45°	1865	1961	2112
50°	1828	1976	2190
55°	1775	2011	2278
60°	1699	2055	2398
65°	1582	2119	2555
70°	1399	2215	2780
75°	1173	2370	2335
80°	936	1872	1943
85°	739	1267	1161



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.2	3.0
10°-20°	400.7	8.7
20°-30°	612.1	13.2
30°-40°	748.3	16.2
40°-50°	801.0	17.3
50°-60°	768.3	16.6
60°-70°	648.7	14.0
70°-80°	414.6	9.0
80°-90°	98.1	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°	1152.1	24.9
0°-40°	1900.4	41.0
0°-60°	3469.7	74.9
0°-90°	4631.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4631.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1468	1468	1468	1468	1468	
5°	1470	1461	1466	1464	1461	140
15°	1416	1411	1420	1425	1425	400
25°	1315	1313	1334	1338	1340	606
35°	1167	1176	1199	1215	1226	730
45°	980	996	1030	1078	1110	756
55°	757	782	857	935	971	675
65°	497	545	666	759	802	490
75°	226	321	456	465	449	243
85°	48	80	82	80	75	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1468.1	1468.1	1468.1	1468.1	1468.1
2.5°	1474.9	1465.8	1468.1	1468.1	1463.5
5°	1470.3	1461.2	1465.8	1463.5	1461.2
7.5°	1461.2	1454.4	1458.9	1458.9	1456.7
10°	1449.8	1443.0	1447.5	1449.8	1449.8
12.5°	1433.9	1429.3	1436.2	1436.2	1438.4
15°	1415.6	1411.1	1420.2	1424.8	1424.8
17.5°	1395.1	1392.8	1404.2	1406.5	1408.8
20°	1372.3	1370.0	1383.7	1383.7	1388.3
22.5°	1345.0	1342.7	1360.9	1360.9	1365.5
25°	1315.3	1313.1	1333.6	1338.1	1340.4
27.5°	1283.4	1281.1	1301.7	1308.5	1313.1
30°	1246.9	1246.9	1269.7	1278.9	1285.7
32.5°	1205.9	1212.7	1233.3	1246.9	1256.1
35°	1167.2	1176.3	1199.1	1215.0	1226.4
37.5°	1123.8	1133.0	1158.0	1178.6	1192.2
40°	1078.3	1089.7	1119.3	1142.1	1162.6
42.5°	1032.7	1044.1	1076.0	1110.2	1137.5
45°	980.2	996.2	1030.4	1078.3	1110.2
47.5°	927.8	943.8	987.1	1046.3	1078.3
50°	873.1	891.3	943.8	1012.1	1046.3
52.5°	816.1	836.6	902.7	975.7	1009.9
55°	756.8	781.9	857.1	934.6	971.1
57.5°	695.3	722.6	811.5	893.6	932.4
60°	631.5	665.6	763.7	850.3	891.3
62.5°	565.3	606.4	715.8	804.7	848.0
65°	497.0	544.8	665.6	759.1	802.4
67.5°	426.3	490.1	615.5	713.5	756.8
70°	355.6	430.8	563.1	663.4	706.7
72.5°	289.5	376.1	510.6	604.1	613.2
75°	225.7	321.4	455.9	465.0	449.1
77.5°	168.7	266.7	376.1	335.1	332.8
80°	120.8	214.3	241.6	248.5	250.8
82.5°	79.8	161.9	157.3	161.9	159.6
85°	47.9	79.8	82.1	79.8	75.2
87.5°	22.8	29.6	22.8	20.5	18.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)