

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: P263602

Luminaire Tested: **24CZ-LD5-65-RDP-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263602
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-LD5-65-RDP-UNV-L93050-W2A1-U-3000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3534.1 lumens
Efficiency: N/A
Efficacy: 70.6 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

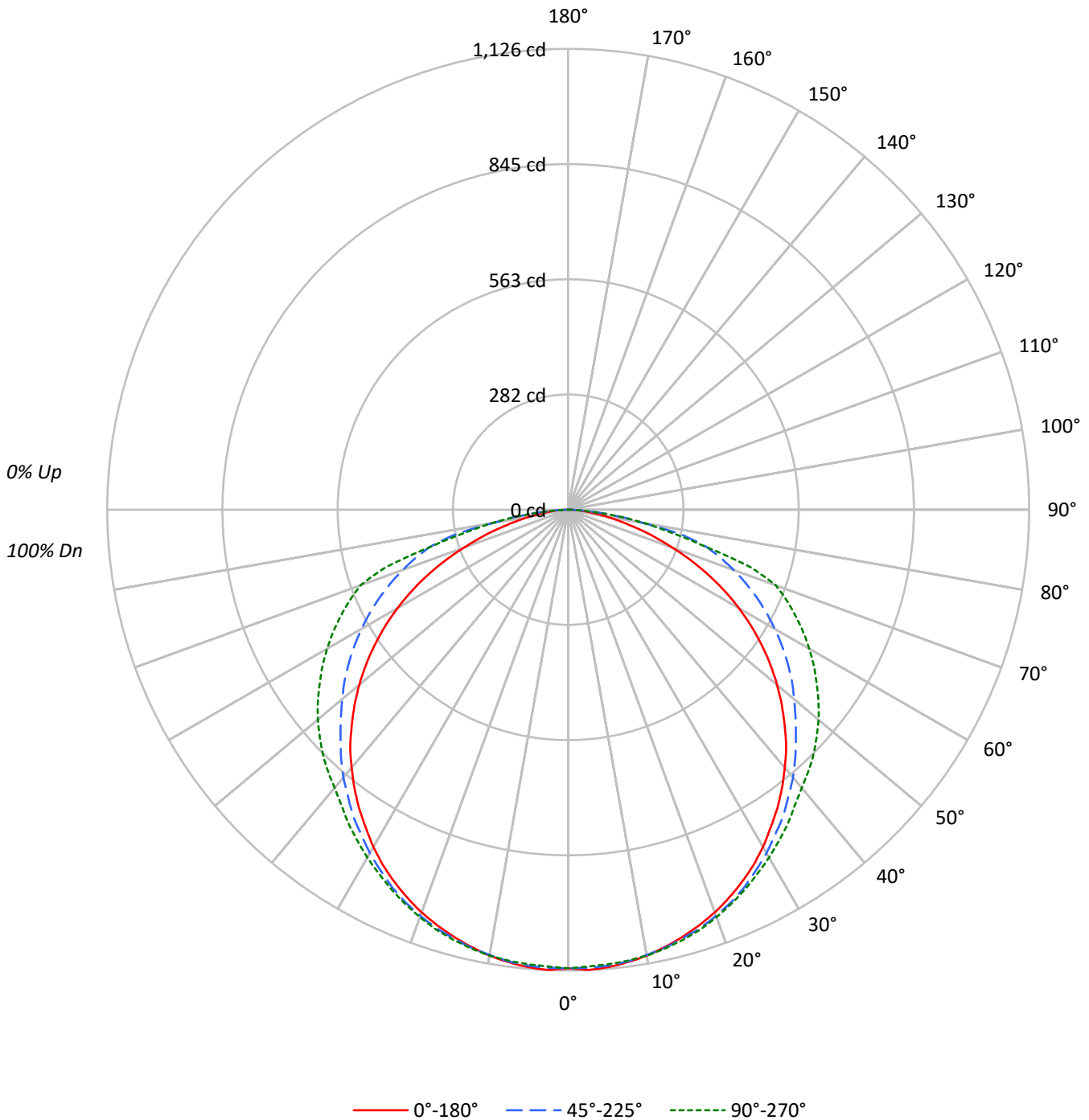
Input Watts (W): 50.043114
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1507	1507	1507
5°	1516	1511	1506
10°	1512	1509	1512
15°	1505	1510	1515
20°	1500	1512	1517
25°	1490	1511	1519
30°	1478	1505	1524
35°	1463	1503	1537
40°	1445	1500	1558
45°	1423	1496	1612
50°	1395	1508	1671
55°	1355	1534	1738
60°	1297	1568	1830
65°	1207	1617	1950
70°	1068	1690	2122
75°	895	1809	1782
80°	714	1429	1483
85°	563	966	886



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.3	3.0
10°-20°	305.8	8.7
20°-30°	467.1	13.2
30°-40°	571.1	16.2
40°-50°	611.3	17.3
50°-60°	586.3	16.6
60°-70°	495.0	14.0
70°-80°	316.4	9.0
80°-90°	74.8	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°	879.2	24.9
0°-40°	1450.2	41.0
0°-60°	2647.8	74.9
0°-90°	3534.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3534.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1120	1120	1120	1120	1120	
5°	1122	1115	1119	1117	1115	107
15°	1080	1077	1084	1087	1087	305
25°	1004	1002	1018	1021	1023	463
35°	891	898	915	927	936	557
45°	748	760	786	823	847	577
55°	578	597	654	713	741	515
65°	379	416	508	579	612	374
75°	172	245	348	355	343	185
85°	36	61	63	61	57	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1120.3	1120.3	1120.3	1120.3	1120.3
2.5°	1125.6	1118.6	1120.3	1120.3	1116.9
5°	1122.1	1115.1	1118.6	1116.9	1115.1
7.5°	1115.1	1109.9	1113.4	1113.4	1111.6
10°	1106.4	1101.2	1104.7	1106.4	1106.4
12.5°	1094.2	1090.8	1096.0	1096.0	1097.7
15°	1080.3	1076.8	1083.8	1087.3	1087.3
17.5°	1064.7	1062.9	1071.6	1073.4	1075.1
20°	1047.3	1045.5	1056.0	1056.0	1059.4
22.5°	1026.4	1024.7	1038.6	1038.6	1042.0
25°	1003.8	1002.0	1017.7	1021.2	1022.9
27.5°	979.4	977.7	993.3	998.6	1002.0
30°	951.6	951.6	969.0	975.9	981.2
32.5°	920.3	925.5	941.1	951.6	958.5
35°	890.7	897.7	915.1	927.2	935.9
37.5°	857.6	864.6	883.7	899.4	909.8
40°	822.9	831.6	854.2	871.6	887.2
42.5°	788.1	796.8	821.1	847.2	868.1
45°	748.0	760.2	786.3	822.9	847.2
47.5°	708.0	720.2	753.3	798.5	822.9
50°	666.3	680.2	720.2	772.4	798.5
52.5°	622.8	638.5	688.9	744.6	770.7
55°	577.6	596.7	654.1	713.3	741.1
57.5°	530.6	551.5	619.3	681.9	711.5
60°	481.9	508.0	582.8	648.9	680.2
62.5°	431.4	462.7	546.2	614.1	647.1
65°	379.2	415.8	508.0	579.3	612.4
67.5°	325.3	374.0	469.7	544.5	577.6
70°	271.4	328.8	429.7	506.2	539.3
72.5°	220.9	287.0	389.7	461.0	468.0
75°	172.2	245.3	347.9	354.9	342.7
77.5°	128.7	203.5	287.0	255.7	254.0
80°	92.2	163.5	184.4	189.6	191.4
82.5°	60.9	123.5	120.0	123.5	121.8
85°	36.5	60.9	62.6	60.9	57.4
87.5°	17.4	22.6	17.4	15.7	13.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)