

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: P263834

Luminaire Tested: **24CZ-LD5-60-RDP-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263834
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-LD5-60-RDP-UNV-L92765-W2A1-U-4000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3702.0 lumens
Efficiency: N/A
Efficacy: 82.6 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

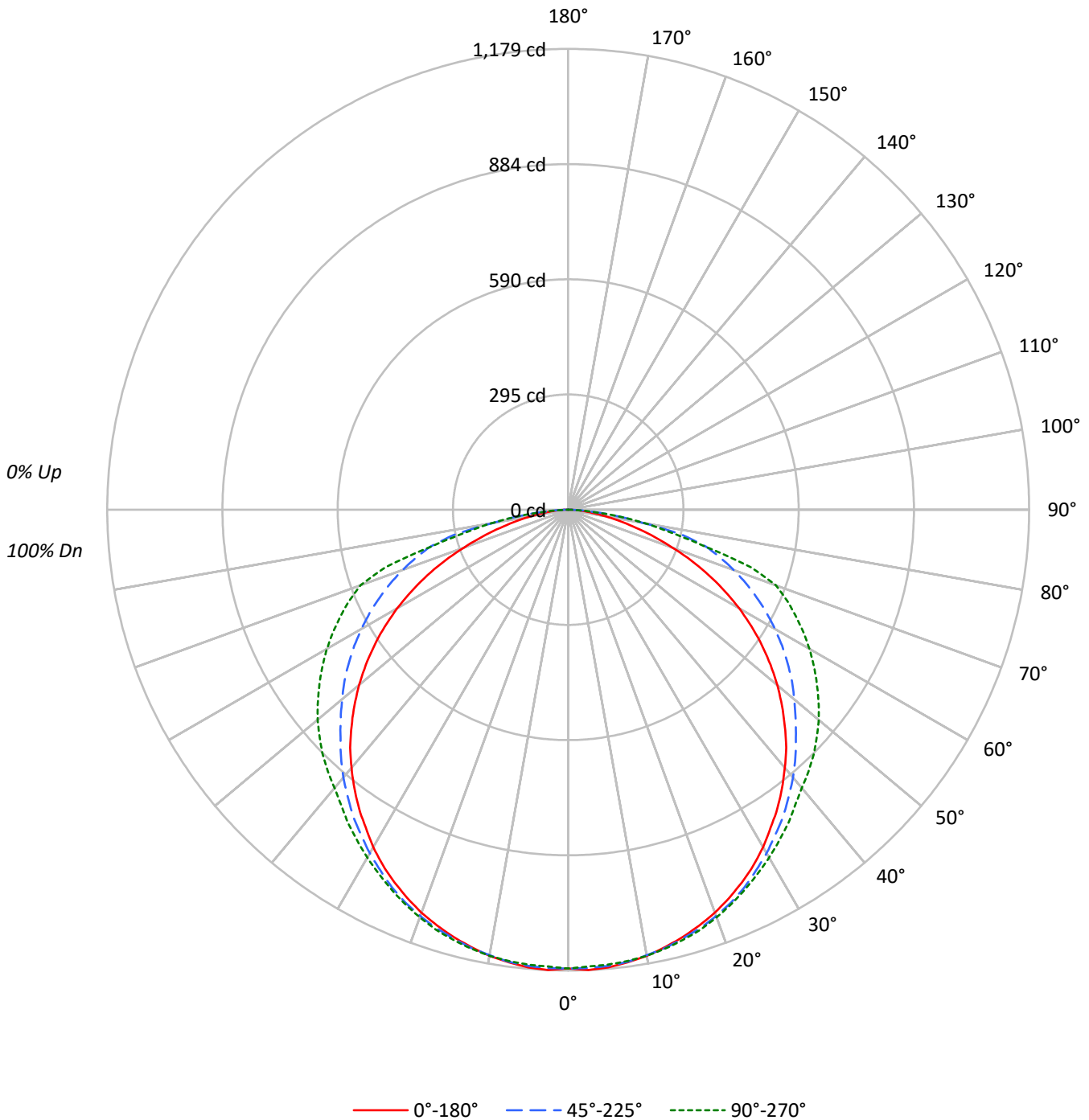
Input Watts (W): 44.826
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1583	1581	1583
15°	1576	1581	1586
20°	1571	1584	1589
25°	1561	1583	1591
30°	1549	1577	1597
35°	1532	1574	1610
40°	1514	1572	1632
45°	1491	1567	1689
50°	1461	1579	1751
55°	1419	1607	1821
60°	1358	1643	1917
65°	1265	1694	2042
70°	1118	1771	2222
75°	938	1895	1866
80°	748	1497	1554
85°	591	1013	928



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.3	3.0
10°-20°	320.3	8.7
20°-30°	489.3	13.2
30°-40°	598.2	16.2
40°-50°	640.3	17.3
50°-60°	614.2	16.6
60°-70°	518.6	14.0
70°-80°	331.4	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°	920.9	24.9
0°-40°	1519.1	41.0
0°-60°	2773.6	74.9
0°-90°	3702.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3702.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1174	1174	1174	1174	1174	
5°	1175	1168	1172	1170	1168	112
15°	1132	1128	1135	1139	1139	320
25°	1052	1050	1066	1070	1072	485
35°	933	940	958	971	980	583
45°	784	796	824	862	888	604
55°	605	625	685	747	776	540
65°	397	436	532	607	642	392
75°	180	257	364	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°	1173.6	1173.6	1173.6	1173.6	1173.6
2.5°	1179.0	1171.7	1173.6	1173.6	1169.9
5°	1175.4	1168.1	1171.7	1169.9	1168.1
7.5°	1168.1	1162.6	1166.3	1166.3	1164.5
10°	1159.0	1153.5	1157.2	1159.0	1159.0
12.5°	1146.2	1142.6	1148.1	1148.1	1149.9
15°	1131.7	1128.0	1135.3	1138.9	1138.9
17.5°	1115.3	1113.4	1122.5	1124.4	1126.2
20°	1097.0	1095.2	1106.1	1106.1	1109.8
22.5°	1075.2	1073.3	1087.9	1087.9	1091.6
25°	1051.5	1049.6	1066.0	1069.7	1071.5
27.5°	1026.0	1024.1	1040.5	1046.0	1049.6
30°	996.8	996.8	1015.0	1022.3	1027.8
32.5°	964.0	969.5	985.9	996.8	1004.1
35°	933.0	940.3	958.5	971.3	980.4
37.5°	898.4	905.7	925.7	942.1	953.1
40°	862.0	871.1	894.8	913.0	929.4
42.5°	825.5	834.6	860.1	887.5	909.3
45°	783.6	796.3	823.7	862.0	887.5
47.5°	741.7	754.4	789.1	836.4	862.0
50°	697.9	712.5	754.4	809.1	836.4
52.5°	652.4	668.8	721.6	779.9	807.3
55°	605.0	625.1	685.2	747.1	776.3
57.5°	555.8	577.7	648.7	714.3	745.3
60°	504.8	532.1	610.5	679.7	712.5
62.5°	451.9	484.7	572.2	643.3	677.9
65°	397.3	435.5	532.1	606.8	641.5
67.5°	340.8	391.8	492.0	570.4	605.0
70°	284.3	344.4	450.1	530.3	564.9
72.5°	231.4	300.7	408.2	482.9	490.2
75°	180.4	256.9	364.5	371.8	359.0
77.5°	134.9	213.2	300.7	267.9	266.1
80°	96.6	171.3	193.2	198.6	200.5
82.5°	63.8	129.4	125.7	129.4	127.6
85°	38.3	63.8	65.6	63.8	60.1
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)