

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: P261053

Luminaire Tested: **24CZ-LD5-35-S-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261053
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25694)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-35-S-UNV-L93050-W2A1-U-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (336) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3051.0 lumens
Efficiency: N/A
Efficacy: 123.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

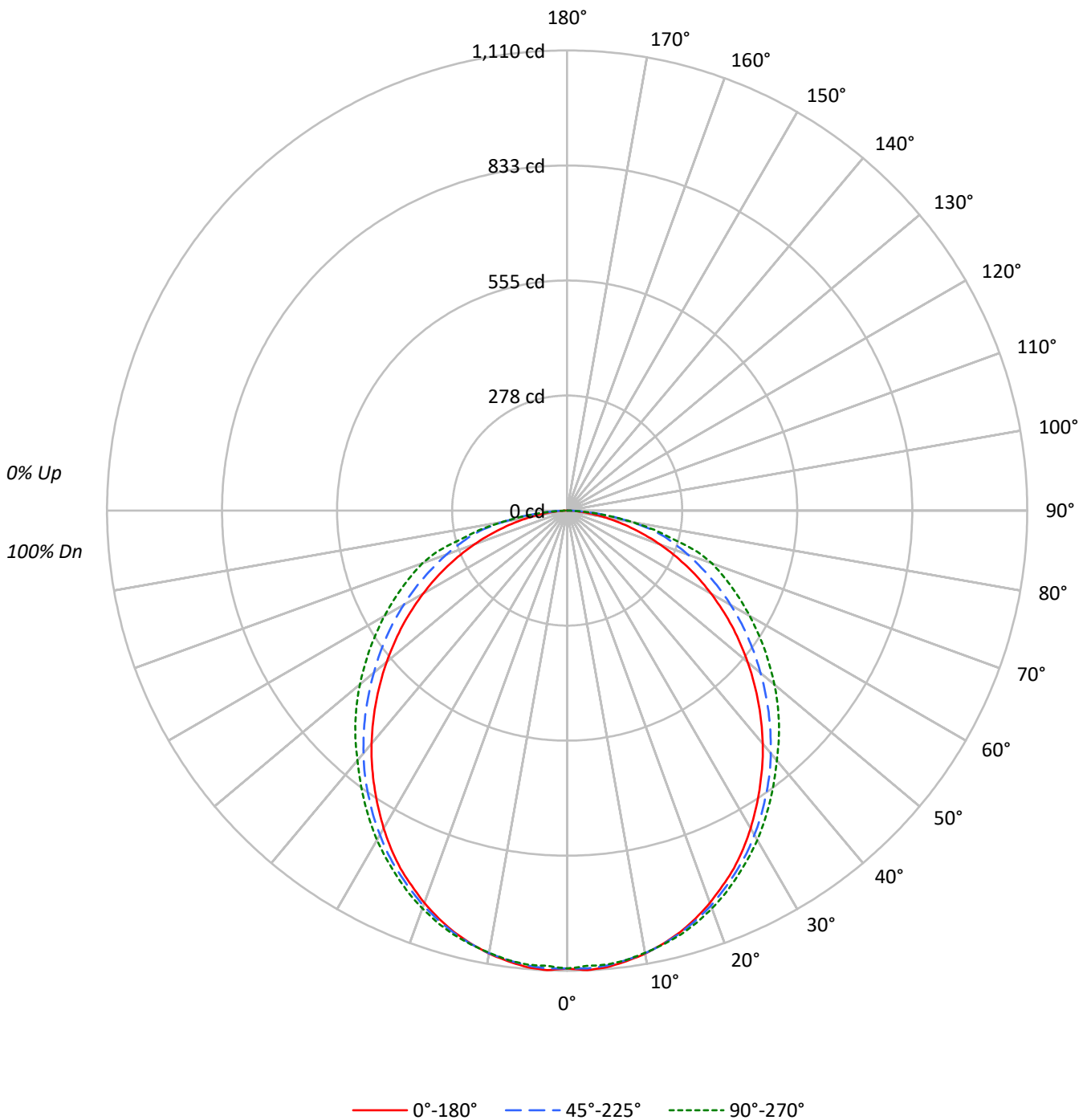
Input Watts (W): 24.63942
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	50
5	76	63	53	47	73	61	53	47	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1486	1486	1486
5°	1493	1488	1485
10°	1483	1481	1480
15°	1466	1469	1475
20°	1442	1452	1462
25°	1414	1429	1444
30°	1375	1404	1426
35°	1332	1374	1402
40°	1289	1343	1382
45°	1240	1308	1375
50°	1190	1275	1366
55°	1138	1248	1362
60°	1079	1227	1369
65°	1015	1212	1396
70°	935	1218	1462
75°	829	1261	1362
80°	692	1196	1227
85°	517	956	877



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.4	3.4
10°-20°	297.0	9.7
20°-30°	442.6	14.5
30°-40°	521.0	17.1
40°-50°	529.5	17.4
50°-60°	476.0	15.6
60°-70°	376.1	12.3
70°-80°	238.6	7.8
80°-90°	65.8	2.2
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°	844.0	27.7
0°-40°	1365.0	44.7
0°-60°	2370.5	77.7
0°-90°	3051.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3051.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1104	1104	1104	1104	1104	
5°	1106	1096	1102	1099	1099	105
15°	1053	1048	1055	1058	1059	297
25°	952	951	962	968	972	438
35°	811	816	836	846	854	507
45°	652	661	687	708	723	503
55°	485	497	532	566	581	433
65°	319	335	381	422	439	316
75°	159	187	243	264	262	170
85°	34	58	62	57	57	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1104.5	1104.5	1104.5	1104.5	1104.5
2.5°	1109.6	1101.5	1105.5	1103.5	1099.4
5°	1105.5	1096.4	1101.5	1099.4	1099.4
7.5°	1096.4	1089.3	1093.3	1092.3	1093.3
10°	1085.2	1078.1	1084.2	1084.2	1083.2
12.5°	1070.0	1063.9	1071.0	1071.0	1072.0
15°	1052.7	1047.7	1054.8	1057.8	1058.8
17.5°	1031.4	1026.3	1035.5	1038.5	1041.6
20°	1007.1	1005.0	1014.2	1017.2	1021.3
22.5°	979.6	979.6	988.8	992.8	998.9
25°	952.2	951.2	962.4	968.5	972.5
27.5°	919.7	920.8	935.0	941.1	946.1
30°	885.2	887.3	903.5	910.6	917.7
32.5°	848.7	852.7	871.0	879.1	886.2
35°	811.1	816.2	836.5	845.6	853.8
37.5°	773.6	780.7	802.0	811.1	820.3
40°	734.0	740.1	764.4	775.6	786.8
42.5°	693.4	701.5	725.8	742.1	755.3
45°	651.7	660.9	687.3	707.6	722.8
47.5°	610.1	622.3	647.7	675.1	688.3
50°	568.5	580.7	609.1	639.6	652.8
52.5°	525.9	538.0	570.5	602.0	616.2
55°	485.3	497.4	532.0	566.5	580.7
57.5°	442.6	455.8	494.4	529.9	544.1
60°	401.0	414.2	455.8	493.4	508.6
62.5°	360.4	374.6	418.3	457.8	473.1
65°	318.8	335.0	380.7	422.3	438.6
67.5°	278.2	296.4	344.1	387.8	405.1
70°	237.6	258.9	309.6	354.3	371.6
72.5°	198.0	221.3	275.1	319.8	328.9
75°	159.4	186.8	242.6	263.9	261.9
77.5°	122.8	153.3	206.1	210.1	216.2
80°	89.3	122.8	154.3	162.4	158.4
82.5°	58.9	92.4	110.7	106.6	105.6
85°	33.5	57.9	61.9	56.8	56.8
87.5°	14.2	23.3	20.3	15.2	14.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)