

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: P261024

Luminaire Tested: **24CZ-LD5-30SE-S-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261024
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-LD5-30SE-S-UNV-L83050-W2A1-U-4000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3248.0 lumens
Efficiency: N/A
Efficacy: 145.9 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

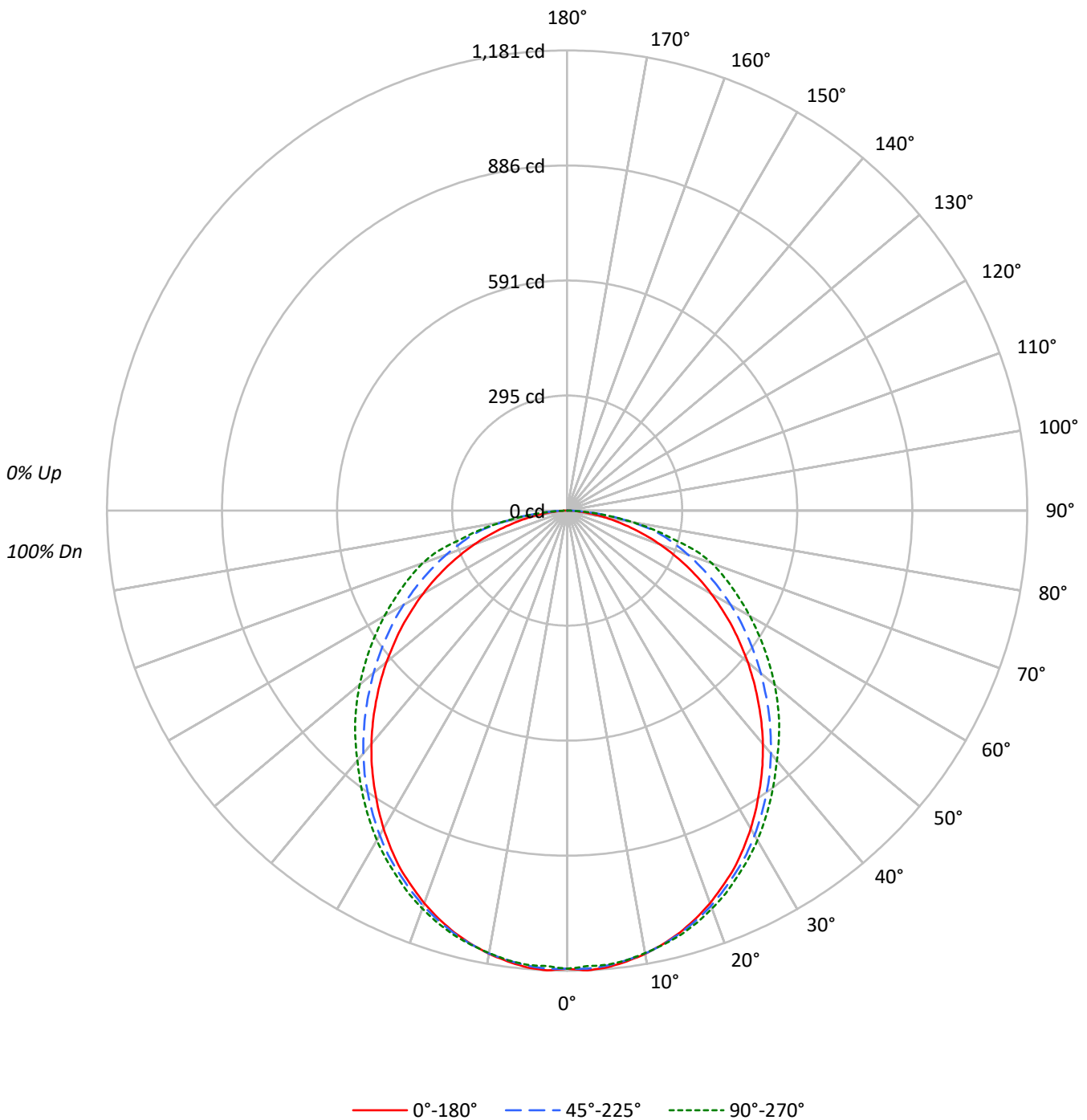
Input Watts (W): 22.262526
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1582	1582	1582
5°	1590	1584	1581
10°	1578	1577	1575
15°	1561	1564	1570
20°	1535	1546	1557
25°	1505	1521	1537
30°	1464	1494	1518
35°	1418	1463	1493
40°	1372	1429	1471
45°	1320	1392	1464
50°	1267	1357	1455
55°	1212	1328	1450
60°	1149	1306	1457
65°	1080	1290	1486
70°	995	1297	1556
75°	882	1343	1449
80°	737	1273	1306
85°	551	1017	934



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.2	3.4
10°-20°	316.2	9.7
20°-30°	471.2	14.5
30°-40°	554.7	17.1
40°-50°	563.7	17.4
50°-60°	506.8	15.6
60°-70°	400.3	12.3
70°-80°	254.0	7.8
80°-90°	70.1	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°	898.5	27.7
0°-40°	1453.2	44.7
0°-60°	2523.6	77.7
0°-90°	3248.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3248.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1176	1176	1176	1176	1176	
5°	1177	1167	1173	1170	1170	112
15°	1121	1115	1123	1126	1127	316
25°	1014	1013	1024	1031	1035	466
35°	864	869	890	900	909	540
45°	694	704	732	753	770	535
55°	517	530	566	603	618	461
65°	339	357	405	450	467	336
75°	170	199	258	281	279	181
85°	36	62	66	60	60	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1175.8	1175.8	1175.8	1175.8	1175.8
2.5°	1181.2	1172.6	1176.9	1174.8	1170.4
5°	1176.9	1167.2	1172.6	1170.4	1170.4
7.5°	1167.2	1159.6	1163.9	1162.9	1163.9
10°	1155.3	1147.7	1154.2	1154.2	1153.1
12.5°	1139.1	1132.6	1140.2	1140.2	1141.3
15°	1120.7	1115.3	1122.9	1126.1	1127.2
17.5°	1098.0	1092.6	1102.3	1105.6	1108.8
20°	1072.1	1069.9	1079.7	1082.9	1087.2
22.5°	1042.9	1042.9	1052.6	1057.0	1063.4
25°	1013.7	1012.6	1024.5	1031.0	1035.3
27.5°	979.1	980.2	995.4	1001.8	1007.2
30°	942.4	944.6	961.9	969.4	977.0
32.5°	903.5	907.8	927.3	935.9	943.5
35°	863.5	868.9	890.5	900.2	908.9
37.5°	823.5	831.1	853.8	863.5	873.2
40°	781.4	787.9	813.8	825.7	837.6
42.5°	738.1	746.8	772.7	790.0	804.1
45°	693.8	703.6	731.7	753.3	769.5
47.5°	649.5	662.5	689.5	718.7	732.7
50°	605.2	618.2	648.4	680.9	694.9
52.5°	559.8	572.8	607.4	640.9	656.0
55°	516.6	529.6	566.3	603.0	618.2
57.5°	471.2	485.2	526.3	564.1	579.3
60°	426.9	440.9	485.2	525.2	541.4
62.5°	383.7	398.8	445.3	487.4	503.6
65°	339.3	356.6	405.3	449.6	466.9
67.5°	296.1	315.6	366.4	412.8	431.2
70°	252.9	275.6	329.6	377.2	395.5
72.5°	210.7	235.6	292.9	340.4	350.2
75°	169.7	198.9	258.3	281.0	278.8
77.5°	130.8	163.2	219.4	223.7	230.2
80°	95.1	130.8	164.3	172.9	168.6
82.5°	62.7	98.3	117.8	113.5	112.4
85°	35.7	61.6	65.9	60.5	60.5
87.5°	15.1	24.9	21.6	16.2	15.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)