

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: P#

Luminaire Tested: **24CZ-LD5-30SE-S-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
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-L850-CD1-U
Description: CRUZE 2x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

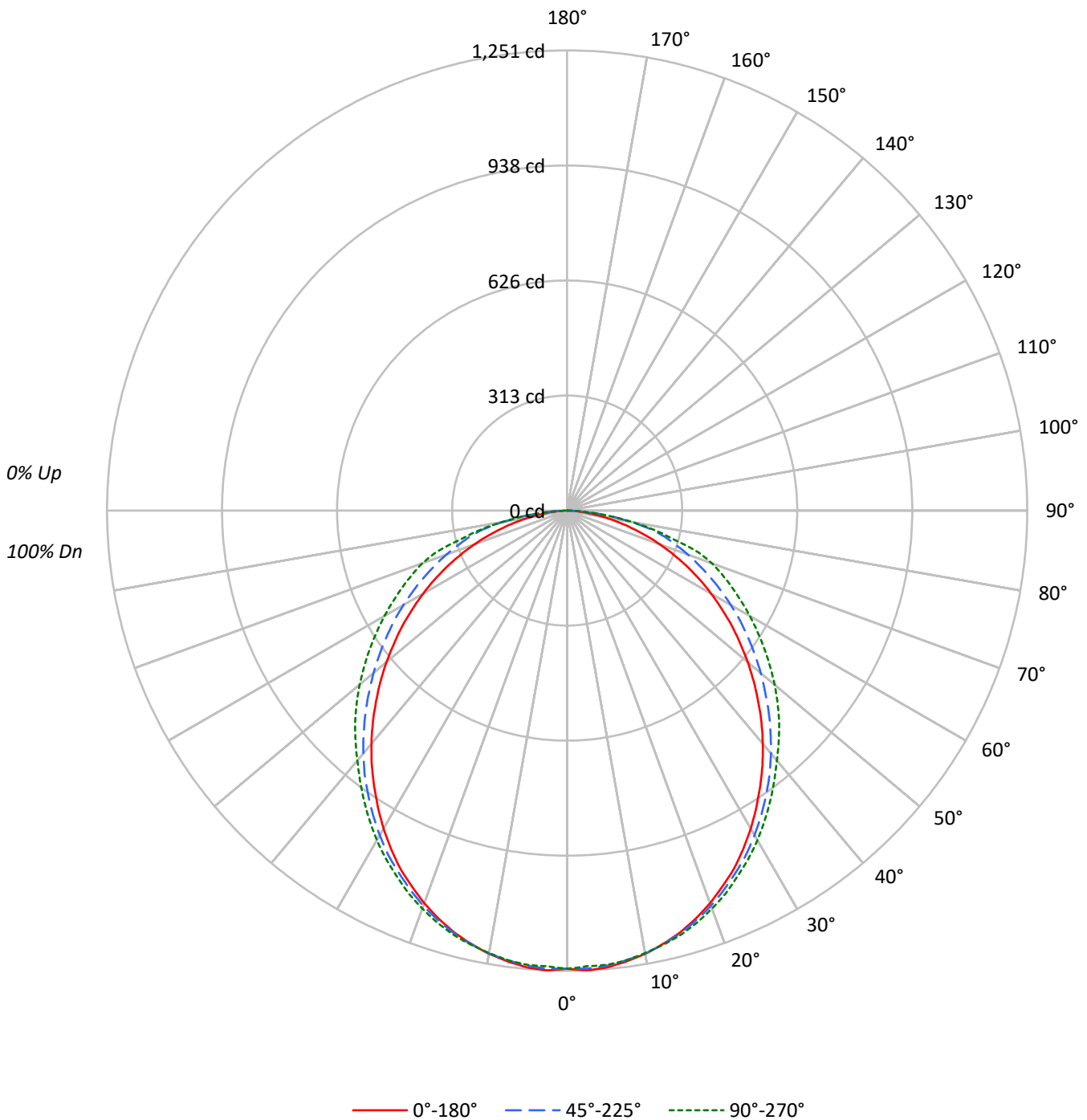
Lumens per Lamp: N/A
Luminaire Lumens: 3440.4 lumens
Efficiency: N/A
Efficacy: 146.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.33
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 23.5
Input Voltage (V): NR
Input Current (A_{in}): 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°	1676	1676	1676
5°	1680	1670	1667
10°	1665	1655	1654
15°	1643	1634	1641
20°	1611	1606	1619
25°	1576	1572	1591
30°	1529	1536	1563
35°	1476	1494	1528
40°	1424	1450	1496
45°	1364	1400	1477
50°	1303	1352	1454
55°	1239	1308	1434
60°	1166	1267	1420
65°	1086	1227	1422
70°	986	1199	1449
75°	854	1187	1294
80°	683	1036	1078
85°	454	671	630



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.8	3.4
10°-20°	334.9	9.7
20°-30°	499.1	14.5
30°-40°	587.5	17.1
40°-50°	597.0	17.4
50°-60°	536.8	15.6
60°-70°	424.1	12.3
70°-80°	269.0	7.8
80°-90°	74.3	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°	951.7	27.7
0°-40°	1539.2	44.7
0°-60°	2673.0	77.7
0°-90°	3440.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3440.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1246	1246	1246	1246	1246	
5°	1247	1236	1242	1240	1240	118
15°	1187	1181	1189	1193	1194	334
25°	1074	1073	1085	1092	1097	494
35°	915	920	943	954	963	572
45°	735	745	775	798	815	567
55°	547	561	600	639	655	489
65°	359	378	429	476	494	356
75°	180	211	274	298	295	191
85°	38	65	70	64	64	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1245.5	1245.5	1245.5	1245.5	1245.5
2.5°	1251.2	1242.0	1246.6	1244.3	1239.8
5°	1246.6	1236.3	1242.0	1239.8	1239.8
7.5°	1236.3	1228.3	1232.9	1231.7	1232.9
10°	1223.7	1215.7	1222.6	1222.6	1221.4
12.5°	1206.6	1199.7	1207.7	1207.7	1208.8
15°	1187.1	1181.4	1189.4	1192.8	1194.0
17.5°	1163.1	1157.3	1167.6	1171.1	1174.5
20°	1135.6	1133.3	1143.6	1147.0	1151.6
22.5°	1104.7	1104.7	1115.0	1119.6	1126.4
25°	1073.8	1072.6	1085.2	1092.1	1096.7
27.5°	1037.1	1038.3	1054.3	1061.2	1066.9
30°	998.2	1000.5	1018.8	1026.8	1034.8
32.5°	957.0	961.6	982.2	991.3	999.4
35°	914.6	920.4	943.3	953.6	962.7
37.5°	872.3	880.3	904.3	914.6	925.0
40°	827.6	834.5	862.0	874.6	887.2
42.5°	781.9	791.0	818.5	836.8	851.7
45°	734.9	745.2	775.0	797.9	815.1
47.5°	688.0	701.7	730.3	761.3	776.1
50°	641.1	654.8	686.8	721.2	736.1
52.5°	593.0	606.7	643.3	678.8	694.9
55°	547.2	560.9	599.8	638.8	654.8
57.5°	499.1	514.0	557.5	597.6	613.6
60°	452.2	467.1	514.0	556.3	573.5
62.5°	406.4	422.4	471.6	516.3	533.5
65°	359.4	377.8	429.3	476.2	494.5
67.5°	313.7	334.3	388.1	437.3	456.8
70°	267.9	291.9	349.1	399.5	419.0
72.5°	223.2	249.6	310.2	360.6	370.9
75°	179.7	210.6	273.6	297.6	295.3
77.5°	138.5	172.9	232.4	237.0	243.8
80°	100.7	138.5	174.0	183.2	178.6
82.5°	66.4	104.2	124.8	120.2	119.1
85°	37.8	65.3	69.8	64.1	64.1
87.5°	16.0	26.3	22.9	17.2	16.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)