

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: P261213

Luminaire Tested: **24CZ-LD5-30SE-S-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261213
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-L82765-W2A1-U-3000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2920.0 lumens
Efficiency: N/A
Efficacy: 135.3 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

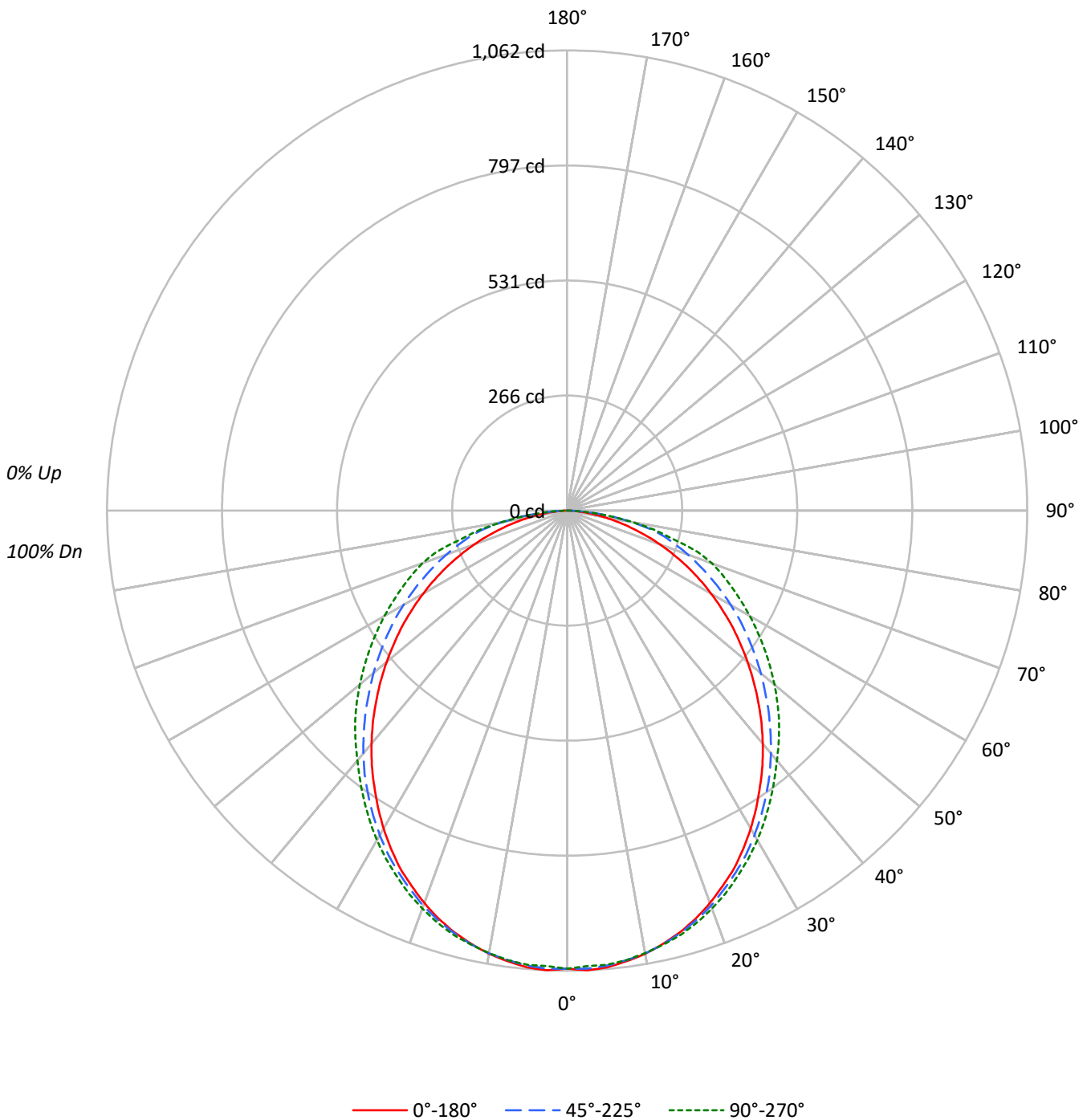
Input Watts (W): 21.576
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1422	1422	1422
5°	1429	1424	1421
10°	1419	1418	1416
15°	1403	1406	1412
20°	1380	1390	1399
25°	1353	1367	1382
30°	1316	1343	1365
35°	1275	1315	1342
40°	1234	1285	1323
45°	1187	1252	1316
50°	1139	1220	1308
55°	1089	1194	1304
60°	1033	1174	1310
65°	971	1160	1336
70°	895	1166	1399
75°	793	1207	1303
80°	662	1144	1175
85°	496	915	840



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.9	3.4
10°-20°	284.2	9.7
20°-30°	423.6	14.5
30°-40°	498.6	17.1
40°-50°	506.7	17.4
50°-60°	455.6	15.6
60°-70°	359.9	12.3
70°-80°	228.3	7.8
80°-90°	63.0	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°	807.8	27.7
0°-40°	1306.4	44.7
0°-60°	2268.7	77.7
0°-90°	2920.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2920.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1057	1057	1057	1057	1057	
5°	1058	1049	1054	1052	1052	100
15°	1008	1003	1010	1012	1013	284
25°	911	910	921	927	931	419
35°	776	781	801	809	817	486
45°	624	632	658	677	692	481
55°	464	476	509	542	556	415
65°	305	321	364	404	420	302
75°	152	179	232	253	251	162
85°	32	55	59	54	54	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1057.1	1057.1	1057.1	1057.1	1057.1
2.5°	1062.0	1054.2	1058.1	1056.1	1052.2
5°	1058.1	1049.3	1054.2	1052.2	1052.2
7.5°	1049.3	1042.5	1046.4	1045.4	1046.4
10°	1038.6	1031.8	1037.7	1037.7	1036.7
12.5°	1024.1	1018.2	1025.0	1025.0	1026.0
15°	1007.5	1002.7	1009.5	1012.4	1013.4
17.5°	987.1	982.3	991.0	993.9	996.9
20°	963.8	961.9	970.6	973.5	977.4
22.5°	937.6	937.6	946.3	950.2	956.0
25°	911.4	910.4	921.1	926.9	930.8
27.5°	880.3	881.2	894.8	900.7	905.5
30°	847.2	849.2	864.7	871.5	878.3
32.5°	812.3	816.1	833.6	841.4	848.2
35°	776.3	781.2	800.6	809.3	817.1
37.5°	740.4	747.2	767.6	776.3	785.0
40°	702.5	708.3	731.6	742.3	753.0
42.5°	663.6	671.4	694.7	710.2	722.9
45°	623.8	632.5	657.8	677.2	691.8
47.5°	583.9	595.6	619.9	646.1	658.7
50°	544.1	555.8	583.0	612.1	624.7
52.5°	503.3	514.9	546.0	576.2	589.8
55°	464.4	476.1	509.1	542.1	555.8
57.5°	423.6	436.2	473.2	507.2	520.8
60°	383.8	396.4	436.2	472.2	486.8
62.5°	344.9	358.5	400.3	438.2	452.8
65°	305.1	320.6	364.3	404.2	419.7
67.5°	266.2	283.7	329.4	371.1	387.7
70°	227.4	247.8	296.3	339.1	355.6
72.5°	189.5	211.8	263.3	306.1	314.8
75°	152.5	178.8	232.2	252.6	250.7
77.5°	117.6	146.7	197.2	201.1	206.9
80°	85.5	117.6	147.7	155.5	151.6
82.5°	56.4	88.4	105.9	102.0	101.0
85°	32.1	55.4	59.3	54.4	54.4
87.5°	13.6	22.3	19.4	14.6	13.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)