

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: P261352

Luminaire Tested: **24CZ-LD5-30SE-S-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261352
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-L92765-W2A1-U-5000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2860.0 lumens
Efficiency: N/A
Efficacy: 128.7 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

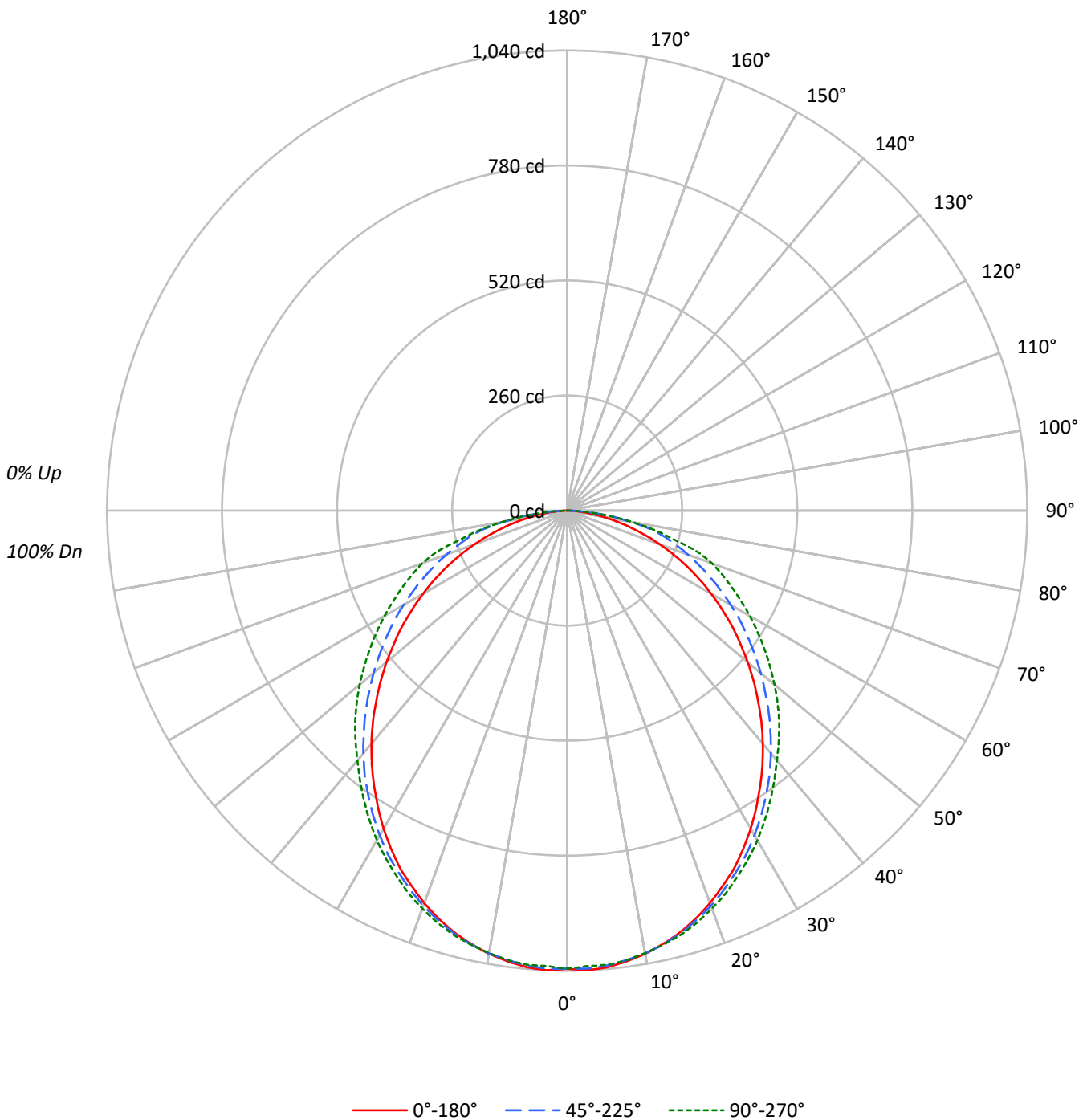
Input Watts (W): 22.227
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1393	1393	1393
5°	1400	1395	1392
10°	1390	1389	1387
15°	1375	1377	1383
20°	1352	1361	1371
25°	1325	1339	1353
30°	1289	1316	1337
35°	1249	1288	1315
40°	1208	1259	1295
45°	1162	1226	1289
50°	1115	1195	1281
55°	1067	1170	1277
60°	1012	1150	1283
65°	951	1136	1309
70°	876	1142	1370
75°	777	1182	1276
80°	649	1120	1151
85°	485	895	823



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.9	3.4
10°-20°	278.4	9.7
20°-30°	414.9	14.5
30°-40°	488.4	17.1
40°-50°	496.3	17.4
50°-60°	446.2	15.6
60°-70°	352.5	12.3
70°-80°	223.6	7.8
80°-90°	61.7	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°	791.2	27.7
0°-40°	1279.6	44.7
0°-60°	2222.1	77.7
0°-90°	2860.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2860.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1035	1035	1035	1035	1035	
5°	1036	1028	1032	1031	1031	98
15°	987	982	989	992	992	278
25°	893	892	902	908	912	410
35°	760	765	784	793	800	476
45°	611	620	644	663	678	471
55°	455	466	499	531	544	406
65°	299	314	357	396	411	296
75°	149	175	227	247	246	159
85°	31	54	58	53	53	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1035.4	1035.4	1035.4	1035.4	1035.4
2.5°	1040.1	1032.5	1036.3	1034.4	1030.6
5°	1036.3	1027.8	1032.5	1030.6	1030.6
7.5°	1027.8	1021.1	1024.9	1024.0	1024.9
10°	1017.3	1010.6	1016.3	1016.3	1015.4
12.5°	1003.0	997.3	1004.0	1004.0	1004.9
15°	986.8	982.1	988.7	991.6	992.5
17.5°	966.9	962.1	970.7	973.5	976.4
20°	944.0	942.1	950.7	953.5	957.3
22.5°	918.3	918.3	926.9	930.7	936.4
25°	892.6	891.7	902.1	907.9	911.7
27.5°	862.2	863.1	876.5	882.2	886.9
30°	829.8	831.7	847.0	853.6	860.3
32.5°	795.6	799.4	816.5	824.1	830.8
35°	760.4	765.1	784.1	792.7	800.3
37.5°	725.1	731.8	751.8	760.4	768.9
40°	688.0	693.7	716.6	727.0	737.5
42.5°	650.0	657.6	680.4	695.6	708.0
45°	610.9	619.5	644.3	663.3	677.6
47.5°	571.9	583.3	607.1	632.8	645.2
50°	532.9	544.3	571.0	599.5	611.9
52.5°	492.9	504.4	534.8	564.3	577.6
55°	454.9	466.3	498.7	531.0	544.3
57.5°	414.9	427.3	463.4	496.8	510.1
60°	375.9	388.3	427.3	462.5	476.8
62.5°	337.8	351.2	392.1	429.2	443.5
65°	298.8	314.0	356.9	395.9	411.1
67.5°	260.7	277.9	322.6	363.5	379.7
70°	222.7	242.7	290.2	332.1	348.3
72.5°	185.6	207.5	257.9	299.8	308.3
75°	149.4	175.1	227.4	247.4	245.5
77.5°	115.1	143.7	193.2	197.0	202.7
80°	83.7	115.1	144.6	152.3	148.5
82.5°	55.2	86.6	103.7	99.9	99.0
85°	31.4	54.2	58.0	53.3	53.3
87.5°	13.3	21.9	19.0	14.3	13.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)