

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: P261354

Luminaire Tested: **24CZ-LD5-30SE-S-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261354
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-5700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2916.0 lumens
Efficiency: N/A
Efficacy: 130.1 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

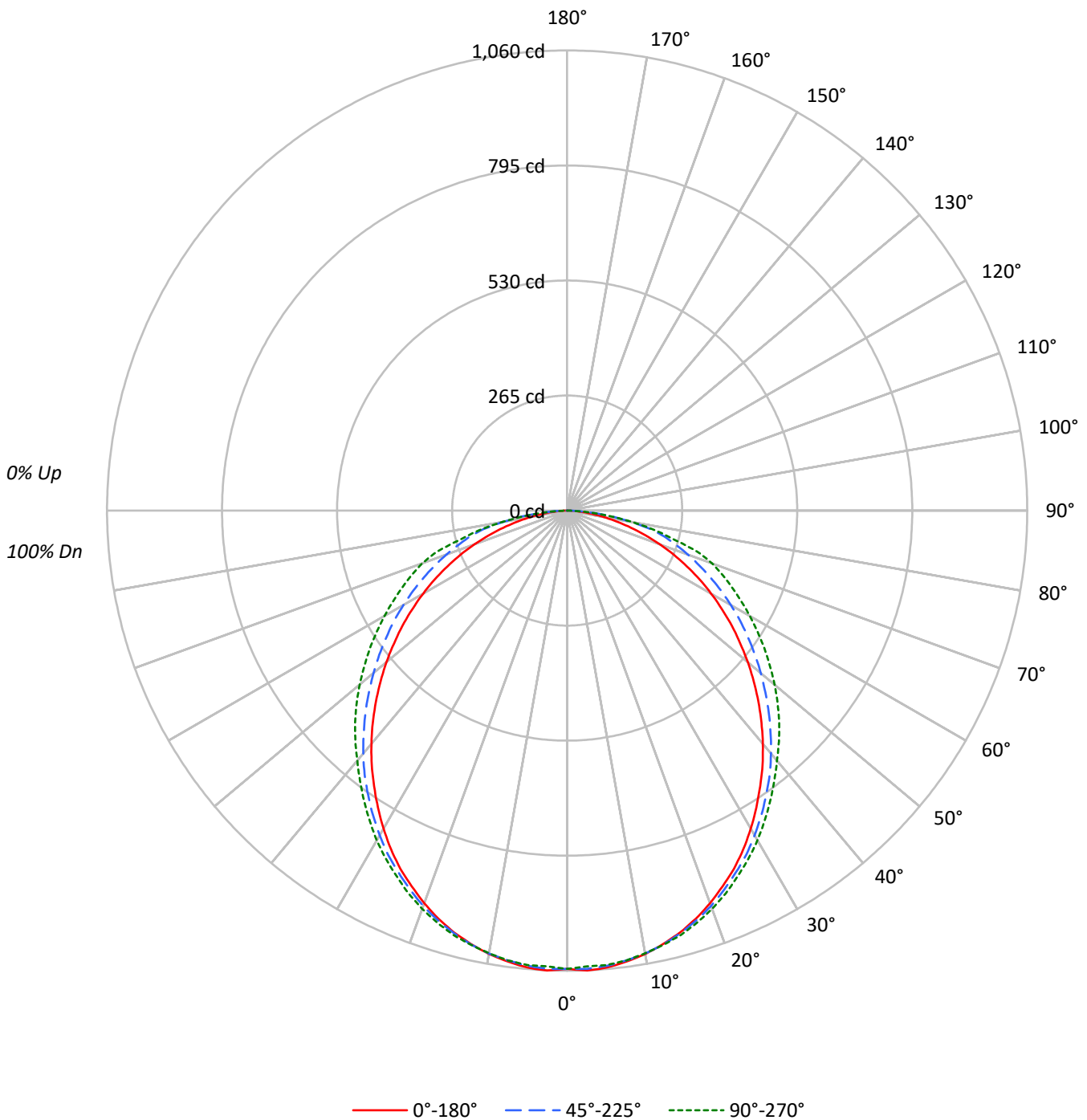
Input Watts (W): 22.413
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1420	1420	1420
5°	1427	1422	1419
10°	1417	1416	1414
15°	1402	1404	1410
20°	1378	1388	1398
25°	1351	1366	1380
30°	1315	1342	1363
35°	1273	1313	1340
40°	1232	1283	1321
45°	1185	1250	1314
50°	1137	1219	1306
55°	1088	1193	1302
60°	1031	1172	1308
65°	970	1158	1335
70°	893	1164	1397
75°	792	1206	1301
80°	662	1143	1173
85°	494	914	838



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.8	3.4
10°-20°	283.9	9.7
20°-30°	423.0	14.5
30°-40°	497.9	17.1
40°-50°	506.0	17.4
50°-60°	455.0	15.6
60°-70°	359.4	12.3
70°-80°	228.0	7.8
80°-90°	62.9	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°	806.7	27.7
0°-40°	1304.6	44.7
0°-60°	2265.6	77.7
0°-90°	2916.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2916.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1056	1056	1056	1056	1056	
5°	1057	1048	1053	1051	1051	100
15°	1006	1001	1008	1011	1012	283
25°	910	909	920	926	930	418
35°	775	780	800	808	816	485
45°	623	632	657	676	691	481
55°	464	475	508	541	555	414
65°	305	320	364	404	419	302
75°	152	178	232	252	250	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°	1055.6	1055.6	1055.6	1055.6	1055.6
2.5°	1060.5	1052.7	1056.6	1054.7	1050.8
5°	1056.6	1047.9	1052.7	1050.8	1050.8
7.5°	1047.9	1041.1	1045.0	1044.0	1045.0
10°	1037.2	1030.4	1036.2	1036.2	1035.3
12.5°	1022.7	1016.8	1023.6	1023.6	1024.6
15°	1006.2	1001.3	1008.1	1011.0	1012.0
17.5°	985.8	980.9	989.7	992.6	995.5
20°	962.5	960.6	969.3	972.2	976.1
22.5°	936.3	936.3	945.0	948.9	954.7
25°	910.1	909.1	919.8	925.6	929.5
27.5°	879.1	880.0	893.6	899.4	904.3
30°	846.1	848.0	863.5	870.3	877.1
32.5°	811.1	815.0	832.5	840.2	847.0
35°	775.2	780.1	799.5	808.2	816.0
37.5°	739.3	746.1	766.5	775.2	784.0
40°	701.5	707.3	730.6	741.3	752.0
42.5°	662.7	670.5	693.7	709.3	721.9
45°	622.9	631.6	656.9	676.3	690.8
47.5°	583.1	594.8	619.0	645.2	657.8
50°	543.3	555.0	582.2	611.3	623.9
52.5°	502.6	514.2	545.3	575.4	588.9
55°	463.8	475.4	508.4	541.4	555.0
57.5°	423.0	435.6	472.5	506.5	520.1
60°	383.3	395.9	435.6	471.5	486.1
62.5°	344.4	358.0	399.7	437.6	452.1
65°	304.7	320.2	363.8	403.6	419.2
67.5°	265.9	283.3	328.9	370.6	387.1
70°	227.0	247.4	295.9	338.6	355.1
72.5°	189.2	211.5	262.9	305.6	314.4
75°	152.3	178.5	231.9	252.3	250.3
77.5°	117.4	146.5	197.0	200.8	206.7
80°	85.4	117.4	147.5	155.2	151.4
82.5°	56.3	88.3	105.8	101.9	100.9
85°	32.0	55.3	59.2	54.3	54.3
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)