

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: P261098

Luminaire Tested: **24CZ-LD5-30SE-S-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261098
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-L93050-W2A1-U-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2629.6 lumens
Efficiency: N/A
Efficacy: 118.6 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

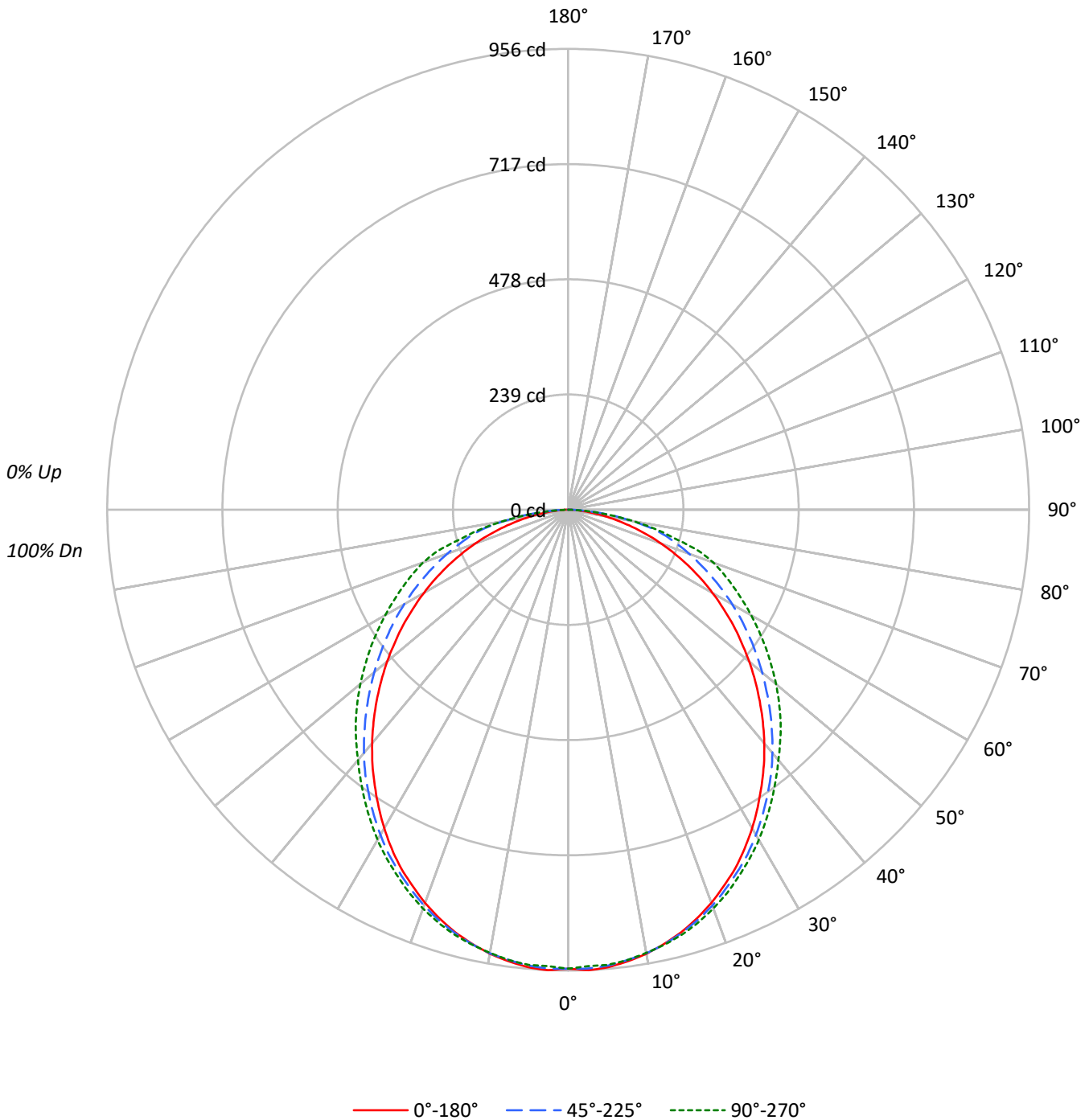
Input Watts (W): 22.175478
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1281	1281	1281
5°	1287	1282	1280
10°	1278	1277	1276
15°	1264	1266	1271
20°	1243	1252	1260
25°	1218	1231	1244
30°	1185	1210	1229
35°	1148	1184	1209
40°	1111	1157	1191
45°	1069	1127	1185
50°	1026	1099	1178
55°	981	1076	1174
60°	930	1057	1180
65°	875	1045	1203
70°	805	1050	1260
75°	714	1087	1173
80°	597	1031	1058
85°	446	824	756



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.0	3.4
10°-20°	256.0	9.7
20°-30°	381.5	14.5
30°-40°	449.1	17.1
40°-50°	456.3	17.4
50°-60°	410.3	15.6
60°-70°	324.1	12.3
70°-80°	205.6	7.8
80°-90°	56.8	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°	727.4	27.7
0°-40°	1176.5	44.7
0°-60°	2043.1	77.7
0°-90°	2629.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2629.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	952	952	952	952	952	
5°	953	945	949	948	948	90
15°	907	903	909	912	913	256
25°	821	820	830	835	838	377
35°	699	704	721	729	736	437
45°	562	570	592	610	623	433
55°	418	429	458	488	500	373
65°	275	289	328	364	378	272
75°	137	161	209	228	226	146
85°	29	50	53	49	49	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	952.0	952.0	952.0	952.0	952.0
2.5°	956.3	949.3	952.8	951.1	947.6
5°	952.8	945.0	949.3	947.6	947.6
7.5°	945.0	938.8	942.3	941.5	942.3
10°	935.3	929.2	934.5	934.5	933.6
12.5°	922.2	917.0	923.1	923.1	924.0
15°	907.3	903.0	909.1	911.7	912.6
17.5°	889.0	884.6	892.5	895.1	897.7
20°	868.0	866.2	874.1	876.7	880.2
22.5°	844.3	844.3	852.2	855.7	861.0
25°	820.7	819.8	829.5	834.7	838.2
27.5°	792.7	793.6	805.8	811.1	815.5
30°	763.0	764.7	778.7	784.8	791.0
32.5°	731.5	735.0	750.7	757.7	763.8
35°	699.1	703.5	721.0	728.9	735.8
37.5°	666.7	672.9	691.2	699.1	707.0
40°	632.6	637.9	658.9	668.5	678.1
42.5°	597.6	604.6	625.6	639.6	651.0
45°	561.7	569.6	592.4	609.9	623.0
47.5°	525.9	536.4	558.2	581.9	593.2
50°	490.0	500.5	525.0	551.2	562.6
52.5°	453.2	463.7	491.7	518.9	531.1
55°	418.2	428.7	458.5	488.2	500.5
57.5°	381.5	392.9	426.1	456.7	469.0
60°	345.6	357.0	392.9	425.2	438.4
62.5°	310.6	322.9	360.5	394.6	407.7
65°	274.7	288.7	328.1	364.0	378.0
67.5°	239.7	255.5	296.6	334.2	349.1
70°	204.7	223.1	266.9	305.4	320.2
72.5°	170.6	190.7	237.1	275.6	283.5
75°	137.4	161.0	209.1	227.5	225.7
77.5°	105.9	132.1	177.6	181.1	186.4
80°	77.0	105.9	133.0	140.0	136.5
82.5°	50.7	79.6	95.4	91.9	91.0
85°	28.9	49.9	53.4	49.0	49.0
87.5°	12.2	20.1	17.5	13.1	12.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)