

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: P261022

Luminaire Tested: **24CZ-LD5-30SE-S-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261022
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-L83050-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: 2924.0 lumens
Efficiency: N/A
Efficacy: 134.6 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

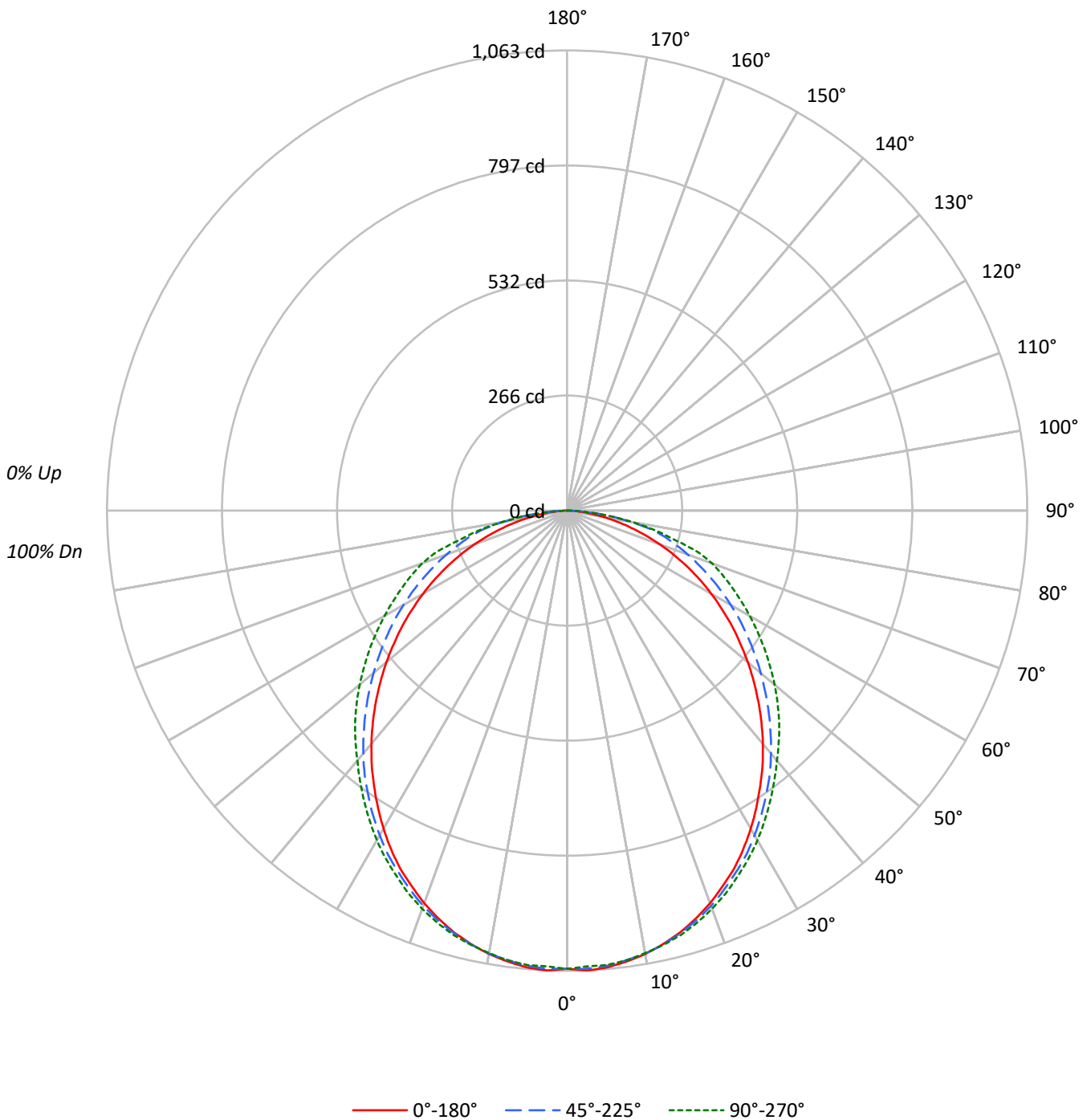
Input Watts (W): 21.718476
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1424	1424	1424
5°	1431	1426	1423
10°	1421	1420	1418
15°	1405	1408	1414
20°	1382	1392	1401
25°	1355	1369	1384
30°	1318	1345	1366
35°	1277	1317	1344
40°	1235	1287	1324
45°	1188	1253	1318
50°	1140	1222	1310
55°	1091	1196	1305
60°	1034	1175	1312
65°	973	1161	1338
70°	896	1167	1401
75°	794	1209	1305
80°	663	1146	1176
85°	496	915	841



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.1	3.4
10°-20°	284.6	9.7
20°-30°	424.2	14.5
30°-40°	499.3	17.1
40°-50°	507.4	17.4
50°-60°	456.2	15.6
60°-70°	360.4	12.3
70°-80°	228.6	7.8
80°-90°	63.1	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°	808.9	27.7
0°-40°	1308.2	44.7
0°-60°	2271.8	77.7
0°-90°	2924.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2924.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1058	1058	1058	1058	1058	
5°	1060	1051	1056	1054	1054	100
15°	1009	1004	1011	1014	1015	284
25°	913	912	922	928	932	420
35°	777	782	802	810	818	486
45°	625	633	659	678	693	482
55°	465	477	510	543	556	415
65°	306	321	365	405	420	303
75°	153	179	232	253	251	163
85°	32	56	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°	1058.5	1058.5	1058.5	1058.5	1058.5
2.5°	1063.4	1055.6	1059.5	1057.6	1053.7
5°	1059.5	1050.8	1055.6	1053.7	1053.7
7.5°	1050.8	1043.9	1047.8	1046.9	1047.8
10°	1040.1	1033.2	1039.1	1039.1	1038.1
12.5°	1025.5	1019.6	1026.4	1026.4	1027.4
15°	1008.9	1004.1	1010.9	1013.8	1014.8
17.5°	988.5	983.6	992.4	995.3	998.2
20°	965.1	963.2	972.0	974.9	978.8
22.5°	938.9	938.9	947.6	951.5	957.4
25°	912.6	911.6	922.3	928.2	932.1
27.5°	881.5	882.4	896.1	901.9	906.8
30°	848.4	850.3	865.9	872.7	879.5
32.5°	813.4	817.3	834.8	842.6	849.4
35°	777.4	782.2	801.7	810.4	818.2
37.5°	741.4	748.2	768.6	777.4	786.1
40°	703.4	709.3	732.6	743.3	754.0
42.5°	664.5	672.3	695.6	711.2	723.9
45°	624.6	633.4	658.7	678.1	692.7
47.5°	584.7	596.4	620.7	647.0	659.6
50°	544.8	556.5	583.8	612.9	625.6
52.5°	504.0	515.6	546.8	576.9	590.6
55°	465.1	476.7	509.8	542.9	556.5
57.5°	424.2	436.8	473.8	507.9	521.5
60°	384.3	397.0	436.8	472.8	487.4
62.5°	345.4	359.0	400.8	438.8	453.4
65°	305.5	321.1	364.8	404.7	420.3
67.5°	266.6	284.1	329.8	371.7	388.2
70°	227.7	248.1	296.7	339.6	356.1
72.5°	189.7	212.1	263.7	306.5	315.2
75°	152.7	179.0	232.5	253.0	251.0
77.5°	117.7	146.9	197.5	201.4	207.2
80°	85.6	117.7	147.9	155.7	151.8
82.5°	56.4	88.5	106.0	102.2	101.2
85°	32.1	55.5	59.3	54.5	54.5
87.5°	13.6	22.4	19.5	14.6	13.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)