

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: P260552

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260552
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25697)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-30-UNV-L83050-W2A1-U-3000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2901.0 lumens
Efficiency: N/A
Efficacy: 148.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.25 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

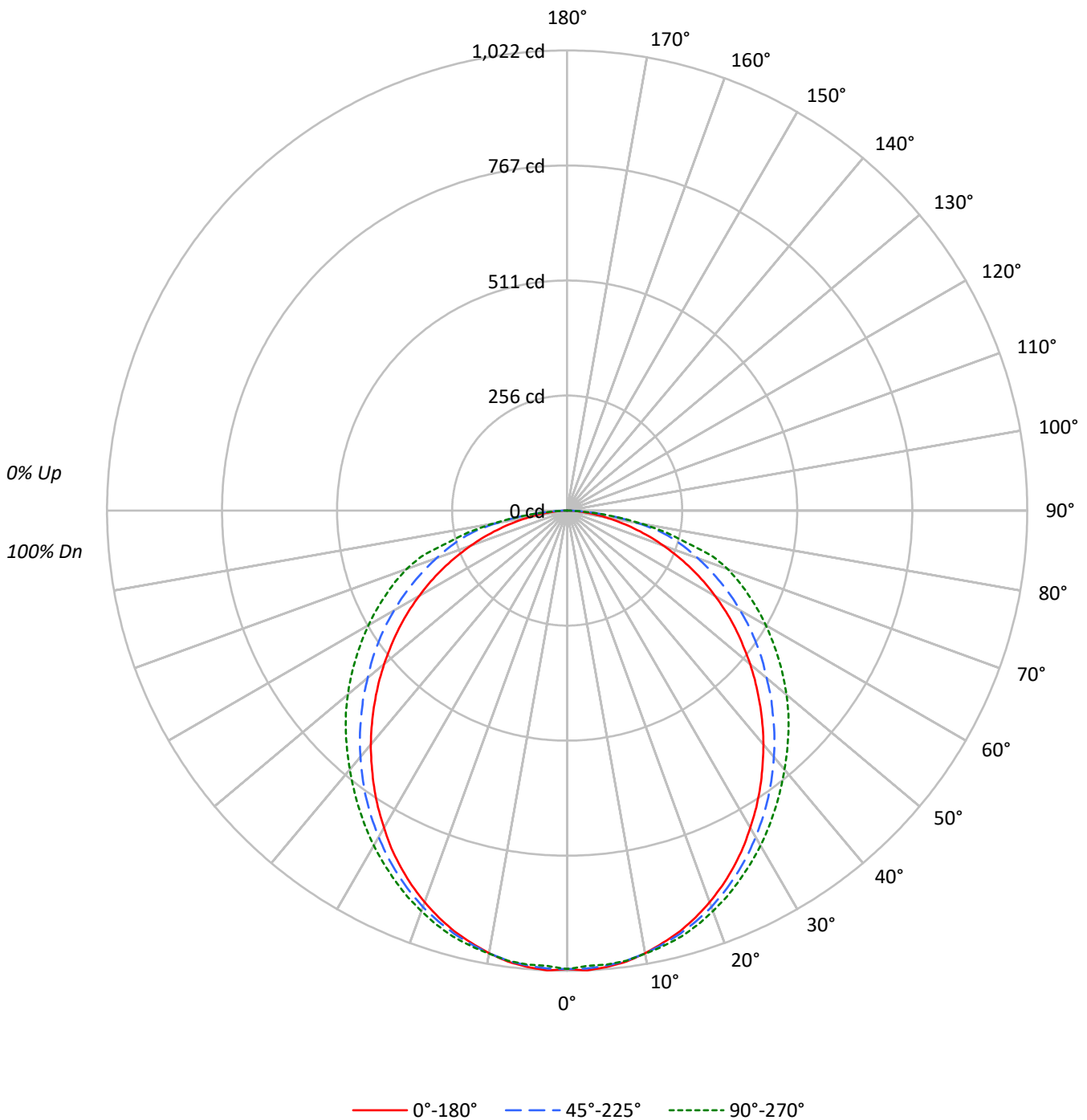
Input Watts (W): 19.583754
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P260552

CATALOG NUMBER: 24CZ-LD5-30-UNV-L83050-W2A1-U-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P260552

CATALOG NUMBER: 24CZ-LD5-30-UNV-L83050-W2A1-U-3000K

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	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	32
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	31	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1370	1370	1370
5°	1374	1370	1367
10°	1364	1364	1365
15°	1348	1355	1364
20°	1325	1341	1355
25°	1298	1323	1345
30°	1264	1301	1335
35°	1228	1279	1325
40°	1192	1254	1319
45°	1151	1230	1323
50°	1110	1210	1331
55°	1069	1202	1344
60°	1021	1195	1371
65°	968	1195	1417
70°	895	1215	1493
75°	801	1270	1420
80°	669	1216	1301
85°	506	936	889



TEST NUMBER: P260552

CATALOG NUMBER: 24CZ-LD5-30-UNV-L83050-W2A1-U-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.2	3.3
10°-20°	273.8	9.4
20°-30°	409.3	14.1
30°-40°	485.6	16.7
40°-50°	499.8	17.2
50°-60°	458.5	15.8
60°-70°	370.7	12.8
70°-80°	240.6	8.3
80°-90°	66.3	2.3
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°	779.4	26.9
0°-40°	1265.0	43.6
0°-60°	2223.3	76.6
0°-90°	2901.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2901.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1018	1018	1018	1018	1018	
5°	1017	1010	1014	1013	1012	97
15°	967	964	972	976	979	273
25°	874	875	891	899	906	402
35°	748	754	779	796	806	468
45°	605	615	647	677	695	467
55°	456	470	512	554	573	407
65°	304	322	376	425	445	300
75°	154	183	244	273	273	164
85°	33	56	61	59	58	40
90°	0	0	0	0	0	



TEST NUMBER: P260552

CATALOG NUMBER: 24CZ-LD5-30-UNV-L83050-W2A1-U-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1018.1	1018.1	1018.1	1018.1	1018.1
2.5°	1022.1	1014.1	1018.1	1017.1	1012.1
5°	1017.1	1010.2	1014.1	1013.1	1012.1
7.5°	1010.2	1003.2	1008.2	1007.2	1008.2
10°	998.2	992.3	998.2	999.2	999.2
12.5°	983.3	978.4	986.3	988.3	990.3
15°	967.4	963.5	972.4	976.4	979.4
17.5°	947.6	944.6	955.5	960.5	964.5
20°	925.7	924.7	936.7	941.6	946.6
22.5°	900.9	900.9	914.8	920.8	927.7
25°	874.1	875.1	891.0	898.9	905.9
27.5°	845.3	846.3	865.1	875.1	883.0
30°	813.5	817.5	837.3	850.2	859.2
32.5°	781.7	786.7	808.5	823.4	833.4
35°	747.9	753.9	778.7	795.6	806.5
37.5°	713.2	720.1	746.9	765.8	778.7
40°	678.4	686.3	714.2	736.0	750.9
42.5°	641.7	650.6	681.4	707.2	723.1
45°	604.9	614.8	646.6	677.4	695.3
47.5°	568.1	580.1	613.8	647.6	666.5
50°	530.4	542.3	578.1	616.8	635.7
52.5°	492.7	506.6	546.3	586.0	604.9
55°	455.9	469.8	512.5	554.2	573.1
57.5°	418.2	432.1	478.8	522.5	541.3
60°	379.4	395.3	444.0	488.7	509.5
62.5°	341.7	358.6	410.2	457.9	477.8
65°	303.9	321.8	375.5	425.1	445.0
67.5°	265.2	286.1	341.7	392.3	413.2
70°	227.5	250.3	308.9	359.6	379.4
72.5°	190.7	215.5	276.1	327.8	339.7
75°	154.0	182.8	244.3	273.1	273.1
77.5°	119.2	151.0	208.6	219.5	225.5
80°	86.4	121.2	156.9	169.8	167.9
82.5°	57.6	92.4	112.2	112.2	109.3
85°	32.8	55.6	60.6	58.6	57.6
87.5°	13.9	20.9	18.9	14.9	12.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)