

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: P260629

Luminaire Tested: **24CZ-LD5-30-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260629
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-L93050-W2A1-U-4000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (336) 90 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2818.2 lumens
Efficiency: N/A
Efficacy: 140.0 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

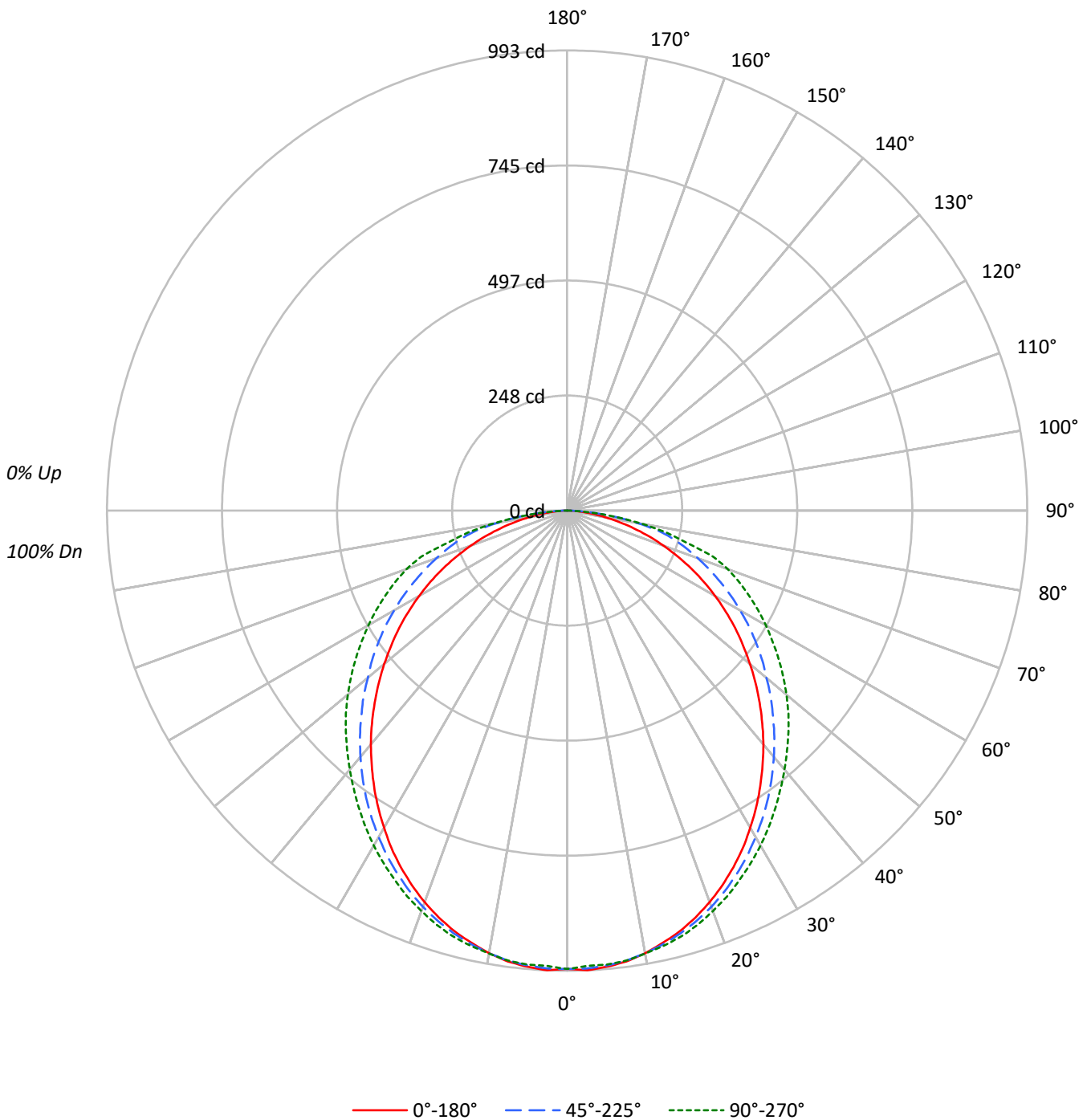
Input Watts (W): 20.133198
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1331	1331	1331
5°	1335	1331	1328
10°	1325	1325	1326
15°	1309	1316	1325
20°	1288	1303	1317
25°	1261	1285	1306
30°	1228	1264	1297
35°	1193	1243	1287
40°	1158	1219	1281
45°	1118	1195	1285
50°	1079	1176	1293
55°	1039	1168	1306
60°	992	1161	1332
65°	940	1161	1376
70°	869	1181	1450
75°	778	1234	1380
80°	650	1182	1264
85°	491	909	865



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.5	3.3
10°-20°	266.0	9.4
20°-30°	397.7	14.1
30°-40°	471.8	16.7
40°-50°	485.6	17.2
50°-60°	445.4	15.8
60°-70°	360.1	12.8
70°-80°	233.8	8.3
80°-90°	64.4	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°	757.1	26.9
0°-40°	1228.9	43.6
0°-60°	2159.9	76.6
0°-90°	2818.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2818.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	989	989	989	989	989	
5°	988	981	985	984	983	94
15°	940	936	945	948	951	265
25°	849	850	866	873	880	391
35°	727	732	756	773	784	454
45°	588	597	628	658	676	453
55°	443	456	498	538	557	396
65°	295	313	365	413	432	292
75°	150	178	237	265	265	159
85°	32	54	59	57	56	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	989.1	989.1	989.1	989.1	989.1
2.5°	992.9	985.2	989.1	988.1	983.3
5°	988.1	981.3	985.2	984.2	983.3
7.5°	981.3	974.6	979.4	978.4	979.4
10°	969.8	964.0	969.8	970.7	970.7
12.5°	955.3	950.5	958.2	960.1	962.0
15°	939.9	936.0	944.7	948.5	951.4
17.5°	920.6	917.7	928.3	933.1	937.0
20°	899.3	898.4	909.9	914.8	919.6
22.5°	875.2	875.2	888.7	894.5	901.3
25°	849.1	850.1	865.6	873.3	880.0
27.5°	821.2	822.1	840.5	850.1	857.8
30°	790.3	794.1	813.4	826.0	834.7
32.5°	759.4	764.2	785.5	799.9	809.6
35°	726.6	732.4	756.5	772.9	783.5
37.5°	692.8	699.6	725.6	744.0	756.5
40°	659.1	666.8	693.8	715.0	729.5
42.5°	623.4	632.0	661.9	687.0	702.5
45°	587.6	597.3	628.2	658.1	675.5
47.5°	551.9	563.5	596.3	629.1	647.5
50°	515.3	526.9	561.6	599.2	617.6
52.5°	478.6	492.1	530.7	569.3	587.6
55°	442.9	456.4	497.9	538.4	556.8
57.5°	406.2	419.7	465.1	507.6	525.9
60°	368.6	384.0	431.3	474.8	495.0
62.5°	331.9	348.3	398.5	444.8	464.1
65°	295.3	312.6	364.7	413.0	432.3
67.5°	257.6	277.9	331.9	381.2	401.4
70°	221.0	243.2	300.1	349.3	368.6
72.5°	185.3	209.4	268.3	318.4	330.0
75°	149.6	177.5	237.4	265.4	265.4
77.5°	115.8	146.7	202.6	213.3	219.0
80°	83.9	117.7	152.5	165.0	163.1
82.5°	56.0	89.7	109.0	109.0	106.1
85°	31.8	54.0	58.9	56.9	56.0
87.5°	13.5	20.3	18.3	14.5	12.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)