

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: P261263

Luminaire Tested: **24CZ-LD5-30-S-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261263
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-LD5-30-S-UNV-L92765-W2A1-U-5500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (336) 90 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2940.0 lumens
Efficiency: N/A
Efficacy: 145.7 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

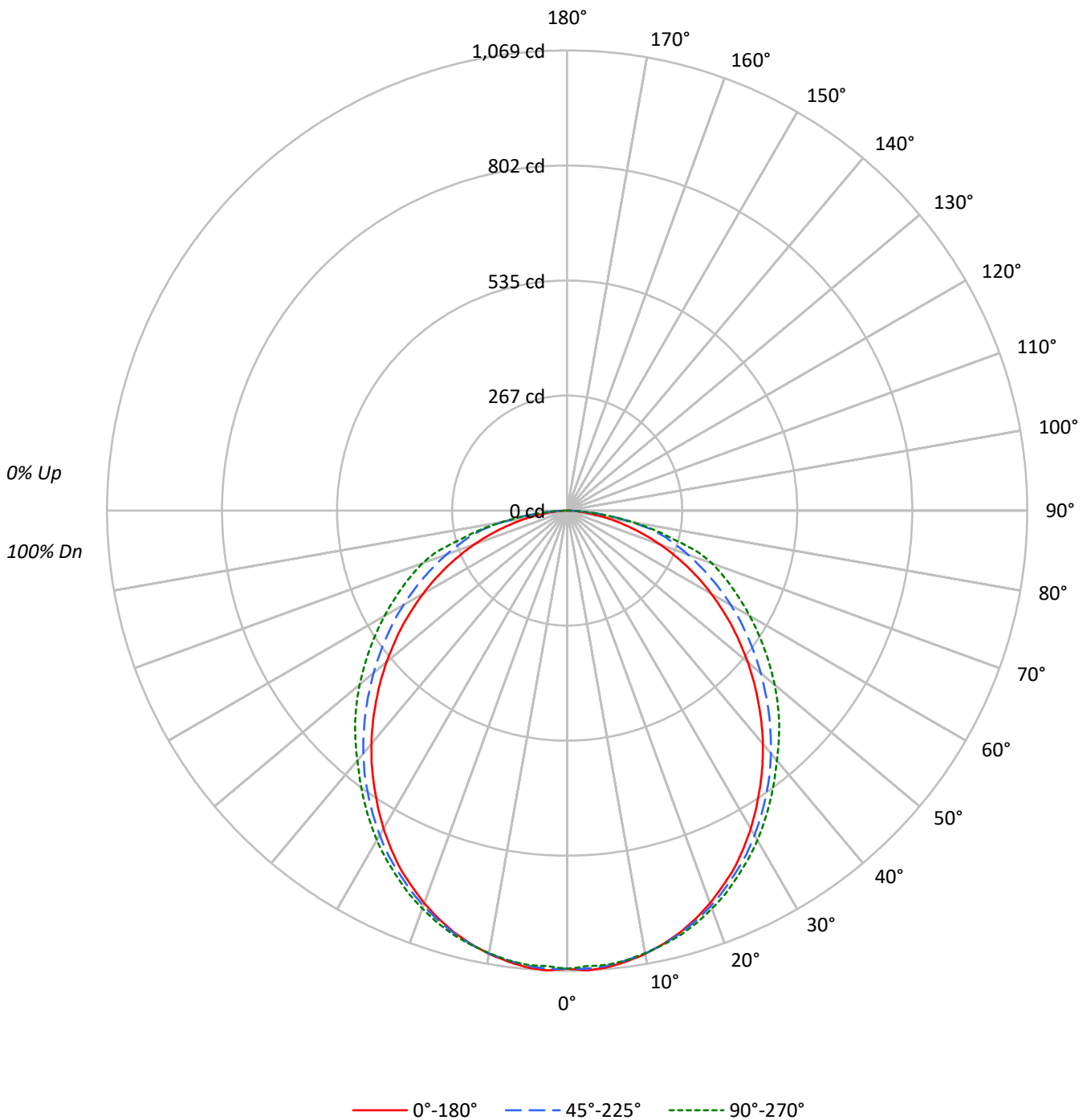
Input Watts (W): 20.181
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1432	1432	1432
5°	1439	1434	1431
10°	1429	1427	1426
15°	1413	1416	1421
20°	1389	1399	1409
25°	1362	1377	1391
30°	1325	1353	1374
35°	1284	1324	1351
40°	1242	1294	1332
45°	1195	1260	1325
50°	1147	1229	1317
55°	1097	1202	1313
60°	1040	1182	1319
65°	978	1168	1345
70°	900	1174	1408
75°	799	1215	1312
80°	667	1152	1182
85°	499	922	846



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.6	3.4
10°-20°	286.2	9.7
20°-30°	426.5	14.5
30°-40°	502.0	17.1
40°-50°	510.2	17.4
50°-60°	458.7	15.6
60°-70°	362.4	12.3
70°-80°	229.9	7.8
80°-90°	63.5	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°	813.3	27.7
0°-40°	1315.4	44.7
0°-60°	2284.2	77.7
0°-90°	2940.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2940.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1064	1064	1064	1064	1064	
5°	1065	1056	1061	1059	1059	101
15°	1014	1010	1016	1019	1020	286
25°	918	917	927	933	937	422
35°	782	786	806	815	823	489
45°	628	637	662	682	696	485
55°	468	479	513	546	560	418
65°	307	323	367	407	423	304
75°	154	180	234	254	252	163
85°	32	56	60	55	55	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1064.3	1064.3	1064.3	1064.3	1064.3
2.5°	1069.2	1061.4	1065.3	1063.4	1059.4
5°	1065.3	1056.5	1061.4	1059.4	1059.4
7.5°	1056.5	1049.7	1053.6	1052.6	1053.6
10°	1045.7	1038.9	1044.8	1044.8	1043.8
12.5°	1031.1	1025.2	1032.1	1032.1	1033.0
15°	1014.4	1009.6	1016.4	1019.3	1020.3
17.5°	993.9	989.0	997.8	1000.7	1003.7
20°	970.4	968.5	977.3	980.2	984.1
22.5°	944.0	944.0	952.8	956.7	962.6
25°	917.6	916.6	927.4	933.2	937.2
27.5°	886.3	887.3	901.0	906.8	911.7
30°	853.0	855.0	870.6	877.5	884.3
32.5°	817.8	821.7	839.3	847.2	854.0
35°	781.6	786.5	806.1	814.9	822.7
37.5°	745.4	752.3	772.8	781.6	790.4
40°	707.3	713.1	736.6	747.4	758.1
42.5°	668.1	676.0	699.4	715.1	727.8
45°	628.0	636.8	662.3	681.8	696.5
47.5°	587.9	599.7	624.1	650.5	663.3
50°	547.8	559.6	586.9	616.3	629.0
52.5°	506.7	518.5	549.8	580.1	593.8
55°	467.6	479.3	512.6	545.9	559.6
57.5°	426.5	439.2	476.4	510.6	524.3
60°	386.4	399.1	439.2	475.4	490.1
62.5°	347.3	361.0	403.0	441.2	455.9
65°	307.2	322.8	366.8	407.0	422.6
67.5°	268.0	285.6	331.6	373.7	390.3
70°	228.9	249.5	298.4	341.4	358.0
72.5°	190.8	213.3	265.1	308.1	317.0
75°	153.6	180.0	233.8	254.3	252.4
77.5°	118.4	147.7	198.6	202.5	208.4
80°	86.1	118.4	148.7	156.5	152.6
82.5°	56.7	89.0	106.6	102.7	101.7
85°	32.3	55.8	59.7	54.8	54.8
87.5°	13.7	22.5	19.6	14.7	13.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)