

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: P261355

Luminaire Tested: **24CZ-LD5-30SE-S-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261355
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-L92765-W2A1-U-6500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2937.0 lumens
Efficiency: N/A
Efficacy: 128.9 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

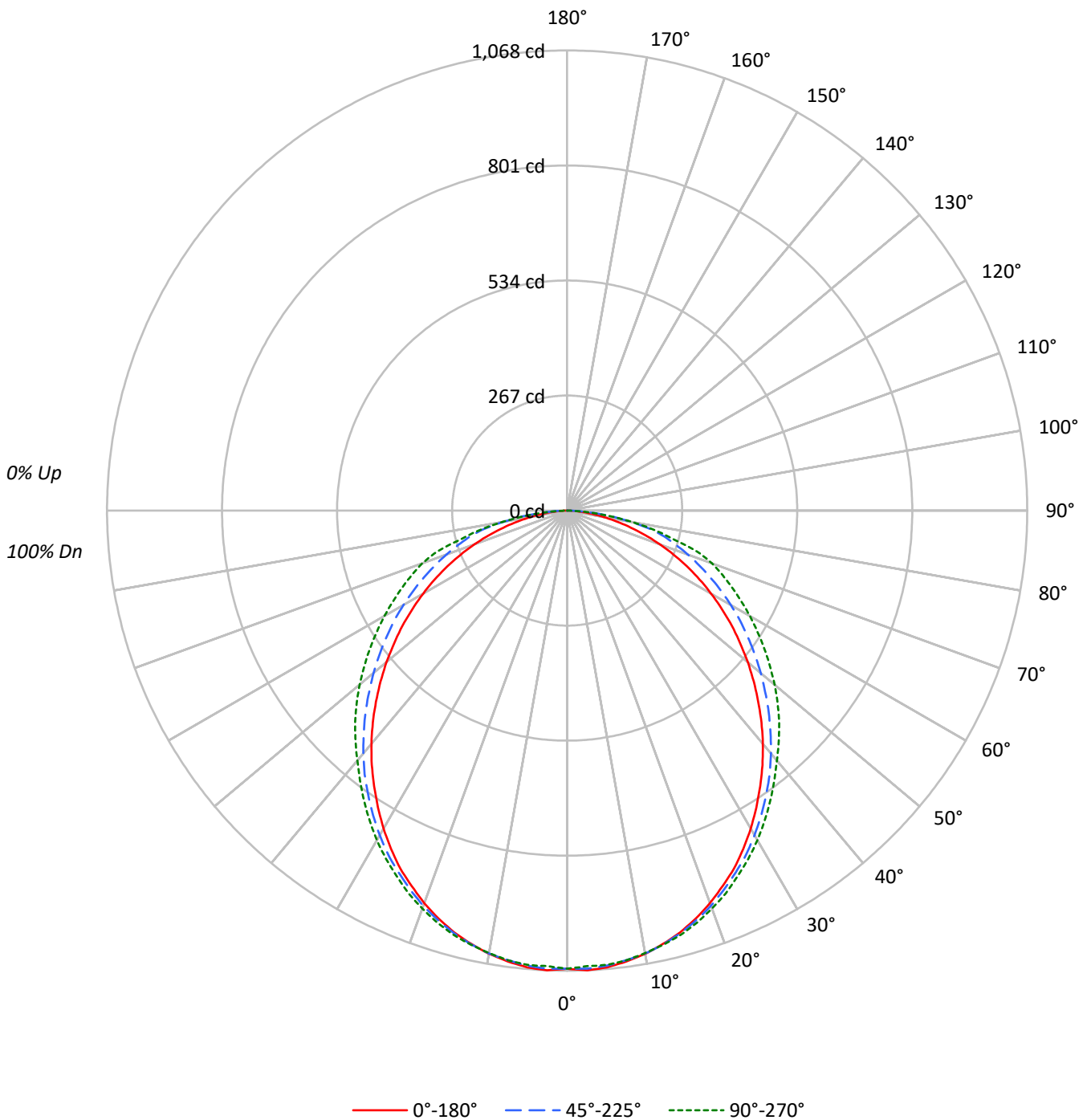
Input Watts (W): 22.785
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1431	1431	1431
5°	1437	1432	1430
10°	1427	1426	1425
15°	1412	1414	1420
20°	1388	1398	1408
25°	1361	1375	1390
30°	1324	1351	1372
35°	1282	1323	1350
40°	1241	1293	1330
45°	1194	1259	1324
50°	1146	1227	1315
55°	1096	1201	1311
60°	1039	1181	1318
65°	977	1167	1344
70°	900	1173	1407
75°	797	1214	1311
80°	666	1151	1182
85°	497	920	844



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.5	3.4
10°-20°	285.9	9.7
20°-30°	426.1	14.5
30°-40°	501.5	17.1
40°-50°	509.7	17.4
50°-60°	458.2	15.6
60°-70°	362.0	12.3
70°-80°	229.7	7.8
80°-90°	63.4	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°	812.5	27.7
0°-40°	1314.0	44.7
0°-60°	2281.9	77.7
0°-90°	2937.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2937.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1063	1063	1063	1063	1063	
5°	1064	1055	1060	1058	1058	101
15°	1013	1008	1015	1018	1019	285
25°	917	916	926	932	936	421
35°	781	786	805	814	822	489
45°	627	636	662	681	696	484
55°	467	479	512	545	559	417
65°	307	322	366	406	422	304
75°	153	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°	1063.2	1063.2	1063.2	1063.2	1063.2
2.5°	1068.1	1060.3	1064.2	1062.3	1058.4
5°	1064.2	1055.4	1060.3	1058.4	1058.4
7.5°	1055.4	1048.6	1052.5	1051.5	1052.5
10°	1044.7	1037.8	1043.7	1043.7	1042.7
12.5°	1030.0	1024.2	1031.0	1031.0	1032.0
15°	1013.4	1008.5	1015.4	1018.3	1019.3
17.5°	992.9	988.0	996.8	999.7	1002.7
20°	969.4	967.5	976.3	979.2	983.1
22.5°	943.0	943.0	951.8	955.8	961.6
25°	916.7	915.7	926.4	932.3	936.2
27.5°	885.4	886.4	900.0	905.9	910.8
30°	852.2	854.1	869.8	876.6	883.4
32.5°	817.0	820.9	838.5	846.3	853.1
35°	780.8	785.7	805.3	814.0	821.9
37.5°	744.7	751.5	772.0	780.8	789.6
40°	706.6	712.4	735.9	746.6	757.4
42.5°	667.5	675.3	698.7	714.4	727.1
45°	627.4	636.2	661.6	681.1	695.8
47.5°	587.3	599.1	623.5	649.9	662.6
50°	547.3	559.0	586.4	615.7	628.4
52.5°	506.2	517.9	549.2	579.5	593.2
55°	467.1	478.9	512.1	545.3	559.0
57.5°	426.1	438.8	475.9	510.1	523.8
60°	386.0	398.7	438.8	474.9	489.6
62.5°	346.9	360.6	402.6	440.7	455.4
65°	306.9	322.5	366.5	406.5	422.2
67.5°	267.8	285.4	331.3	373.3	389.9
70°	228.7	249.2	298.1	341.1	357.7
72.5°	190.6	213.0	264.8	307.8	316.6
75°	153.4	179.8	233.6	254.1	252.1
77.5°	118.2	147.6	198.4	202.3	208.2
80°	86.0	118.2	148.5	156.4	152.5
82.5°	56.7	88.9	106.5	102.6	101.6
85°	32.2	55.7	59.6	54.7	54.7
87.5°	13.7	22.5	19.5	14.7	13.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)