

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: P263138

Luminaire Tested: **24CZ-LD5-45SE-SQP-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263138
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25695)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-45SE-SQP-UNV-L83050-W2A1-U-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3000.0 lumens
Efficiency: N/A
Efficacy: 85.8 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.31 / 1.42
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

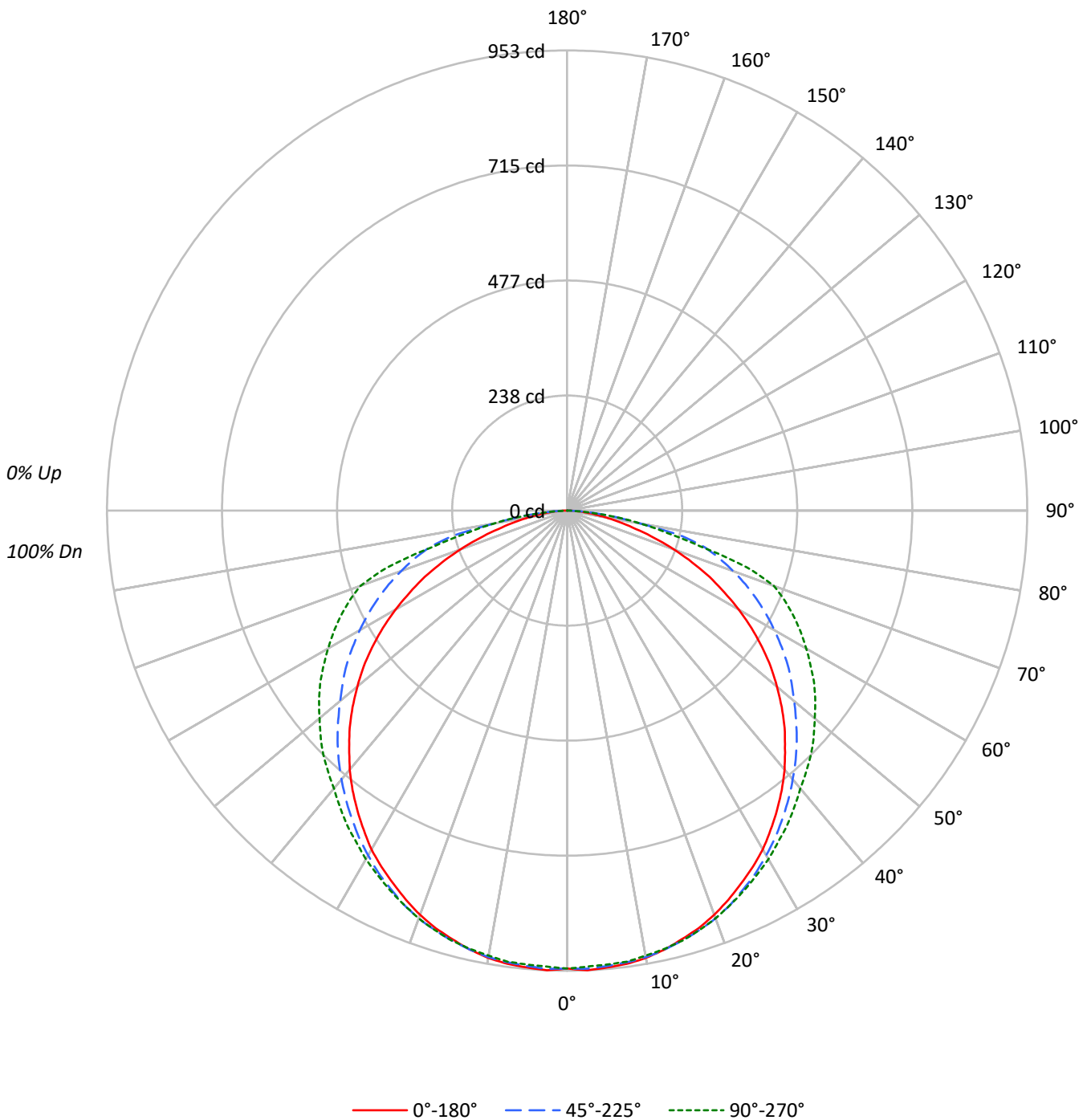
Input Watts (W): 34.968
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	108	103	98	94	105	101	97	93	96	93	90	92	90	87	89	87	84
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70
3	89	78	69	62	86	76	68	62	73	66	60	70	64	59	67	63	58
4	81	68	59	52	79	67	58	52	64	57	51	62	56	50	60	54	50
5	74	61	51	45	72	60	51	44	57	50	44	55	49	43	54	48	43
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1276	1276	1276
5°	1283	1279	1275
10°	1285	1283	1279
15°	1280	1284	1284
20°	1276	1287	1287
25°	1265	1284	1288
30°	1259	1281	1295
35°	1245	1278	1306
40°	1230	1277	1320
45°	1212	1280	1359
50°	1187	1284	1401
55°	1156	1309	1465
60°	1105	1334	1539
65°	1036	1376	1648
70°	926	1439	1792
75°	765	1539	1482
80°	625	1189	1201
85°	502	789	741



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.1	3.0
10°-20°	259.9	8.7
20°-30°	397.2	13.2
30°-40°	485.8	16.2
40°-50°	519.8	17.3
50°-60°	497.8	16.6
60°-70°	421.1	14.0
70°-80°	266.9	8.9
80°-90°	61.4	2.0
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°	747.2	24.9
0°-40°	1233.0	41.1
0°-60°	2250.6	75.0
0°-90°	3000.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3000.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	948	948	948	948	948	
5°	950	945	947	945	944	90
15°	919	917	922	922	922	260
25°	852	852	865	868	868	393
35°	758	762	778	789	795	474
45°	637	648	672	700	714	491
55°	493	508	558	604	624	440
65°	325	356	432	491	518	321
75°	147	208	296	294	285	160
85°	32	50	51	46	48	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	948.4	948.4	948.4	948.4	948.4
2.5°	953.0	948.4	949.9	948.4	945.3
5°	949.9	945.3	946.8	945.3	943.7
7.5°	946.8	942.2	943.7	942.2	942.2
10°	940.6	936.0	939.1	937.5	936.0
12.5°	931.3	928.2	931.3	929.8	929.8
15°	918.9	917.4	922.0	922.0	922.0
17.5°	906.5	905.0	911.2	911.2	911.2
20°	891.0	889.5	898.8	898.8	898.8
22.5°	872.4	870.9	883.3	883.3	883.3
25°	852.3	852.3	864.7	867.8	867.8
27.5°	832.1	832.1	846.1	850.7	850.7
30°	810.4	810.4	824.4	830.6	833.7
32.5°	784.1	787.2	802.7	810.4	813.5
35°	757.8	762.4	777.9	788.7	794.9
37.5°	729.9	734.5	753.1	765.5	773.3
40°	700.4	706.6	726.8	742.3	751.6
42.5°	667.9	677.2	700.4	720.6	733.0
45°	636.9	647.7	672.5	700.4	714.4
47.5°	602.8	615.2	643.1	678.7	692.7
50°	567.2	579.6	613.6	653.9	669.4
52.5°	531.5	545.5	585.7	629.1	647.7
55°	492.8	508.3	557.9	604.3	624.5
57.5°	452.5	471.1	526.9	576.5	598.1
60°	410.6	433.9	495.9	548.6	571.8
62.5°	367.3	395.1	464.9	520.7	545.5
65°	325.4	356.4	432.3	491.2	517.6
67.5°	280.5	319.2	399.8	463.3	488.1
70°	235.5	280.5	365.7	430.8	455.6
72.5°	190.6	244.8	331.6	390.5	390.5
75°	147.2	207.6	296.0	294.4	285.1
77.5°	111.6	173.6	243.3	207.6	209.2
80°	80.6	139.5	153.4	153.4	155.0
82.5°	54.2	106.9	99.2	97.6	100.7
85°	32.5	49.6	51.1	46.5	48.0
87.5°	15.5	17.0	13.9	9.3	9.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)