

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: P263814

Luminaire Tested: **24CZ-LD5-50-RDP-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263814
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25696)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-50-RDP-UNV-L92765-W2A1-U-3000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2846.0 lumens
Efficiency: N/A
Efficacy: 80.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

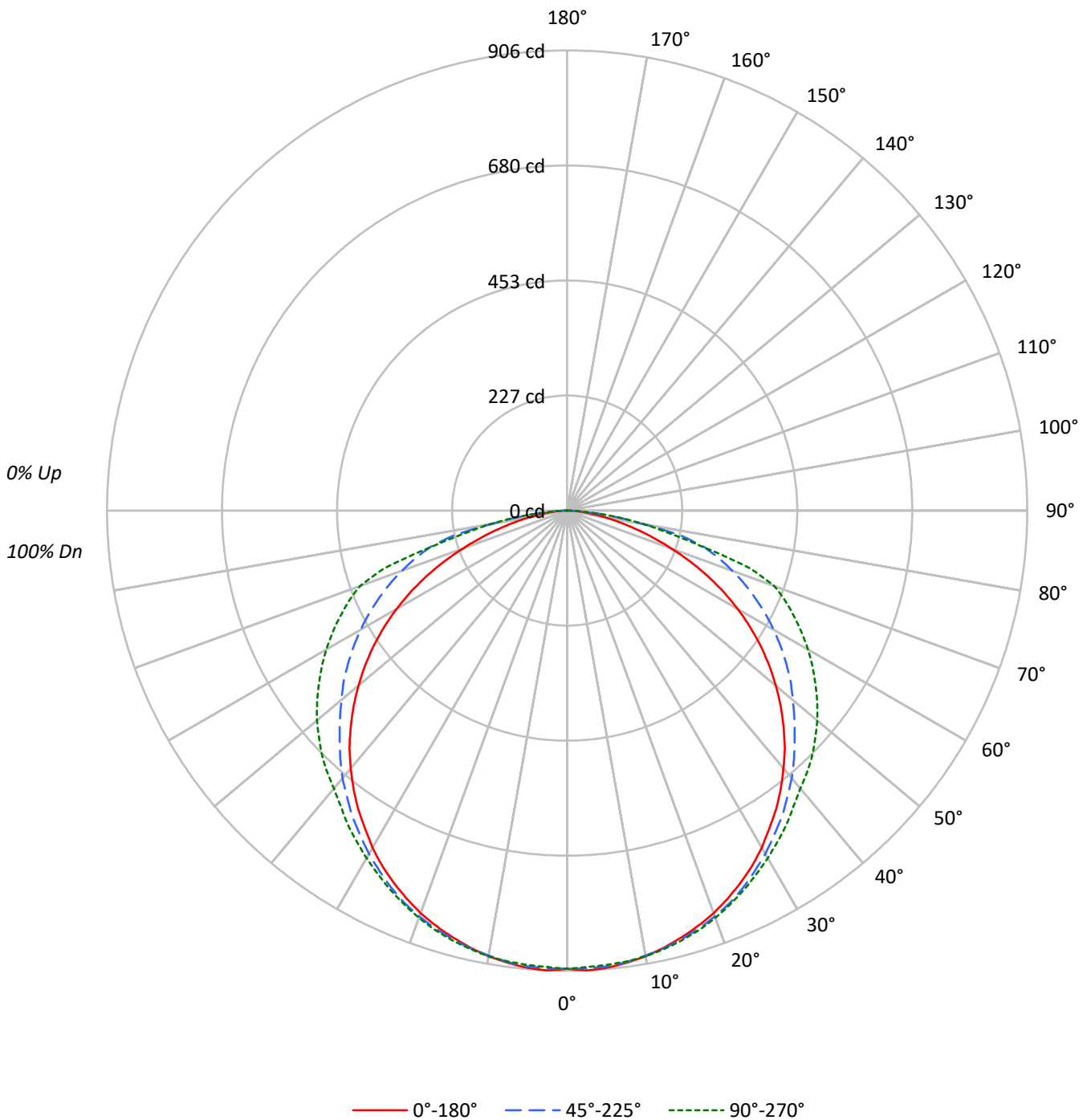
Input Watts (W): 35.34
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	98	94	105	101	97	93	96	93	90	92	90	87	89	87	84	82
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67
3	89	78	69	62	86	76	68	62	73	66	60	70	64	59	67	62	58	56
4	81	68	59	52	78	67	58	52	64	57	51	62	56	50	60	54	50	47
5	74	61	51	45	72	60	51	44	57	50	44	55	49	43	54	48	43	41
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	34	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	27
9	55	41	33	27	53	41	32	27	39	32	27	38	32	27	37	31	27	25
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1214	1214	1214
5°	1220	1217	1213
10°	1217	1215	1217
15°	1212	1216	1220
20°	1208	1218	1222
25°	1200	1217	1223
30°	1191	1212	1228
35°	1178	1210	1238
40°	1164	1208	1255
45°	1146	1205	1298
50°	1123	1214	1346
55°	1091	1236	1400
60°	1044	1263	1474
65°	972	1302	1570
70°	860	1361	1709
75°	721	1457	1435
80°	575	1151	1194
85°	454	778	713



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.6	3.0
10°-20°	246.3	8.7
20°-30°	376.2	13.2
30°-40°	459.9	16.2
40°-50°	492.2	17.3
50°-60°	472.2	16.6
60°-70°	398.7	14.0
70°-80°	254.8	9.0
80°-90°	60.2	2.1
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°	708.0	24.9
0°-40°	1167.9	41.0
0°-60°	2132.3	74.9
0°-90°	2846.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2846.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	902	902	902	902	902	
5°	904	898	901	899	898	86
15°	870	867	873	876	876	246
25°	808	807	820	822	824	373
35°	717	723	737	747	754	448
45°	602	612	633	663	682	465
55°	465	480	527	574	597	415
65°	305	335	409	466	493	301
75°	139	198	280	286	276	149
85°	29	49	50	49	46	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	902.2	902.2	902.2	902.2	902.2
2.5°	906.4	900.8	902.2	902.2	899.4
5°	903.6	898.0	900.8	899.4	898.0
7.5°	898.0	893.8	896.6	896.6	895.2
10°	891.0	886.8	889.6	891.0	891.0
12.5°	881.2	878.4	882.6	882.6	884.0
15°	870.0	867.2	872.8	875.6	875.6
17.5°	857.4	856.0	863.0	864.4	865.8
20°	843.4	842.0	850.4	850.4	853.2
22.5°	826.6	825.2	836.4	836.4	839.2
25°	808.3	806.9	819.6	822.4	823.8
27.5°	788.7	787.3	799.9	804.1	806.9
30°	766.3	766.3	780.3	785.9	790.1
32.5°	741.1	745.3	757.9	766.3	771.9
35°	717.3	722.9	736.9	746.7	753.7
37.5°	690.7	696.3	711.7	724.3	732.7
40°	662.6	669.6	687.9	701.9	714.5
42.5°	634.6	641.6	661.2	682.3	699.1
45°	602.4	612.2	633.2	662.6	682.3
47.5°	570.2	580.0	606.6	643.0	662.6
50°	536.6	547.8	580.0	622.0	643.0
52.5°	501.5	514.1	554.8	599.6	620.6
55°	465.1	480.5	526.8	574.4	596.8
57.5°	427.3	444.1	498.7	549.2	573.0
60°	388.1	409.1	469.3	522.6	547.8
62.5°	347.4	372.7	439.9	494.5	521.1
65°	305.4	334.8	409.1	466.5	493.1
67.5°	262.0	301.2	378.3	438.5	465.1
70°	218.5	264.8	346.0	407.7	434.3
72.5°	177.9	231.2	313.8	371.2	376.9
75°	138.7	197.5	280.2	285.8	276.0
77.5°	103.7	163.9	231.2	205.9	204.5
80°	74.2	131.7	148.5	152.7	154.1
82.5°	49.0	99.5	96.7	99.5	98.1
85°	29.4	49.0	50.4	49.0	46.2
87.5°	14.0	18.2	14.0	12.6	11.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)