

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: P263758

Luminaire Tested: **24CZ-LD5-40SE-RDP-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263758
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-LD5-40SE-RDP-UNV-L82765-W2A1-U-6500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2941.0 lumens
Efficiency: N/A
Efficacy: 92.5 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

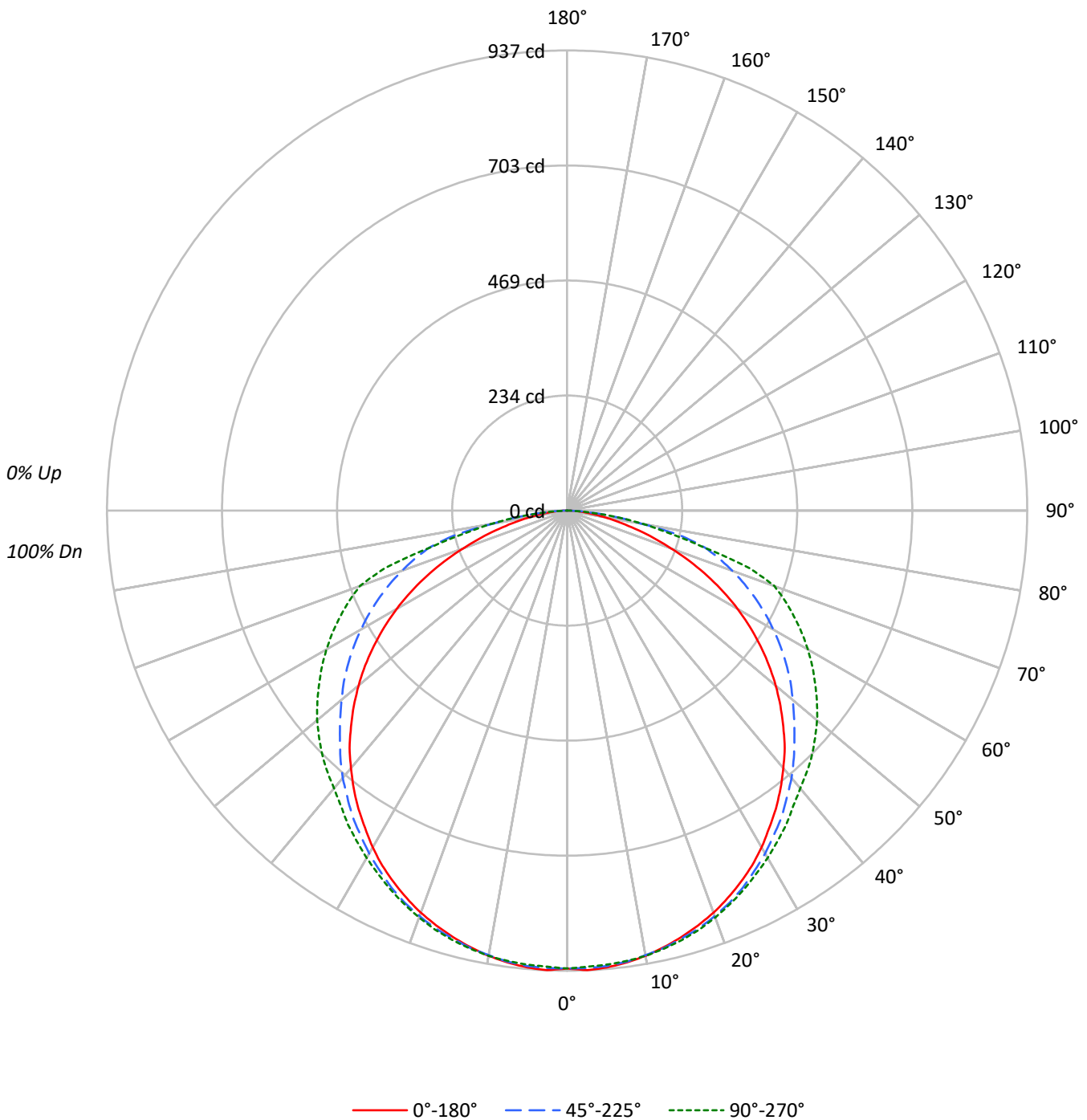
Input Watts (W): 31.806
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1254	1254	1254
5°	1261	1257	1253
10°	1258	1256	1258
15°	1252	1256	1260
20°	1248	1258	1262
25°	1240	1257	1264
30°	1230	1253	1269
35°	1217	1251	1279
40°	1203	1248	1297
45°	1184	1245	1341
50°	1161	1254	1391
55°	1127	1277	1447
60°	1079	1305	1523
65°	1005	1346	1622
70°	888	1407	1766
75°	745	1505	1483
80°	594	1189	1234
85°	469	804	738



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.4	3.0
10°-20°	254.5	8.7
20°-30°	388.7	13.2
30°-40°	475.2	16.2
40°-50°	508.7	17.3
50°-60°	487.9	16.6
60°-70°	412.0	14.0
70°-80°	263.3	9.0
80°-90°	62.3	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°	731.6	24.9
0°-40°	1206.9	41.0
0°-60°	2203.5	74.9
0°-90°	2941.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2941.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	932	932	932	932	932	
5°	934	928	931	929	928	89
15°	899	896	902	905	905	254
25°	835	834	847	850	851	385
35°	741	747	762	772	779	463
45°	622	633	654	685	705	480
55°	481	497	544	594	617	429
65°	316	346	423	482	510	311
75°	143	204	290	295	285	154
85°	30	51	52	51	48	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	932.3	932.3	932.3	932.3	932.3
2.5°	936.7	930.9	932.3	932.3	929.4
5°	933.8	928.0	930.9	929.4	928.0
7.5°	928.0	923.6	926.5	926.5	925.1
10°	920.7	916.4	919.3	920.7	920.7
12.5°	910.6	907.7	912.1	912.1	913.5
15°	899.0	896.1	901.9	904.8	904.8
17.5°	886.0	884.5	891.8	893.2	894.7
20°	871.5	870.1	878.8	878.8	881.7
22.5°	854.1	852.7	864.3	864.3	867.2
25°	835.3	833.9	846.9	849.8	851.3
27.5°	815.1	813.6	826.6	831.0	833.9
30°	791.9	791.9	806.4	812.2	816.5
32.5°	765.8	770.2	783.2	791.9	797.7
35°	741.2	747.0	761.5	771.6	778.9
37.5°	713.7	719.5	735.4	748.5	757.1
40°	684.8	692.0	710.8	725.3	738.3
42.5°	655.8	663.0	683.3	705.0	722.4
45°	622.5	632.6	654.4	684.8	705.0
47.5°	589.2	599.3	626.9	664.5	684.8
50°	554.5	566.1	599.3	642.8	664.5
52.5°	518.3	531.3	573.3	619.6	641.3
55°	480.6	496.6	544.3	593.6	616.7
57.5°	441.5	458.9	515.4	567.5	592.1
60°	401.0	422.7	485.0	540.0	566.1
62.5°	359.0	385.1	454.6	511.0	538.5
65°	315.6	346.0	422.7	482.1	509.6
67.5°	270.7	311.3	390.9	453.1	480.6
70°	225.8	273.6	357.6	421.3	448.8
72.5°	183.9	238.9	324.3	383.6	389.4
75°	143.3	204.1	289.5	295.3	285.2
77.5°	107.1	169.4	238.9	212.8	211.4
80°	76.7	136.1	153.5	157.8	159.2
82.5°	50.7	102.8	99.9	102.8	101.3
85°	30.4	50.7	52.1	50.7	47.8
87.5°	14.5	18.8	14.5	13.0	11.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)