

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: P263554

Luminaire Tested: **24CZ-LD5-40SE-RDP-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263554
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-L83050-W2A1-U-4000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2954.0 lumens
Efficiency: N/A
Efficacy: 95.0 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

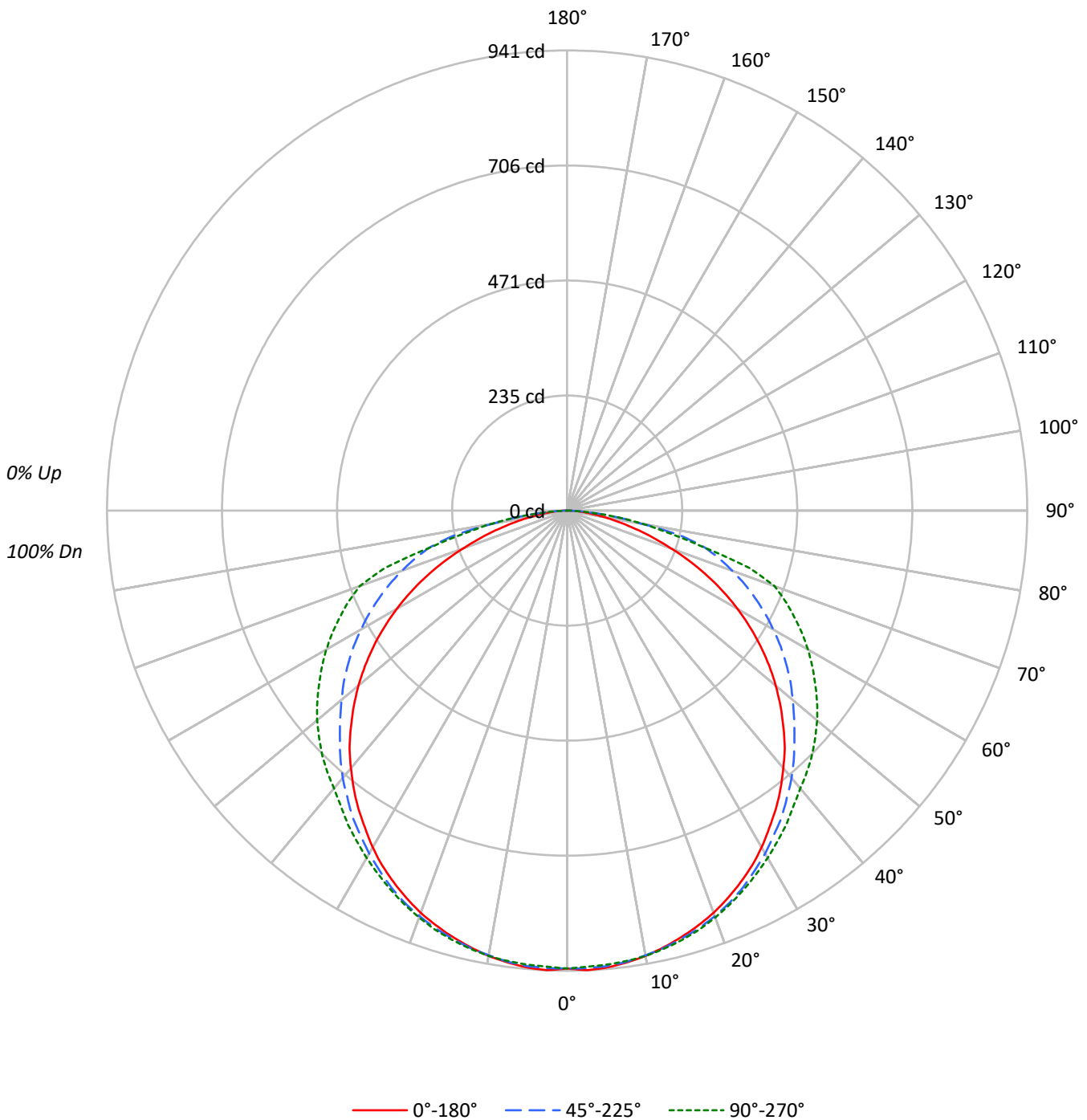
Input Watts (W): 31.110453
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1260	1260	1260
5°	1267	1263	1259
10°	1264	1262	1264
15°	1258	1262	1266
20°	1253	1264	1268
25°	1246	1263	1269
30°	1236	1258	1274
35°	1223	1256	1285
40°	1208	1254	1303
45°	1190	1251	1347
50°	1166	1260	1397
55°	1133	1282	1453
60°	1084	1311	1530
65°	1009	1352	1629
70°	892	1413	1773
75°	749	1512	1489
80°	597	1194	1240
85°	471	807	741



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.8	3.0
10°-20°	255.6	8.7
20°-30°	390.4	13.2
30°-40°	477.3	16.2
40°-50°	510.9	17.3
50°-60°	490.1	16.6
60°-70°	413.8	14.0
70°-80°	264.4	9.0
80°-90°	62.5	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°	734.9	24.9
0°-40°	1212.2	41.0
0°-60°	2213.2	74.9
0°-90°	2954.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2954.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	936	936	936	936	936	
5°	938	932	935	934	932	89
15°	903	900	906	909	909	255
25°	839	838	851	854	855	387
35°	744	750	765	775	782	465
45°	625	635	657	688	708	482
55°	483	499	547	596	619	431
65°	317	348	425	484	512	313
75°	144	205	291	297	286	155
85°	30	51	52	51	48	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	936.4	936.4	936.4	936.4	936.4
2.5°	940.8	935.0	936.4	936.4	933.5
5°	937.9	932.1	935.0	933.5	932.1
7.5°	932.1	927.7	930.6	930.6	929.2
10°	924.8	920.4	923.4	924.8	924.8
12.5°	914.6	911.7	916.1	916.1	917.5
15°	903.0	900.1	905.9	908.8	908.8
17.5°	889.9	888.5	895.7	897.2	898.6
20°	875.4	873.9	882.6	882.6	885.5
22.5°	857.9	856.5	868.1	868.1	871.0
25°	839.0	837.6	850.7	853.6	855.0
27.5°	818.7	817.2	830.3	834.7	837.6
30°	795.4	795.4	809.9	815.8	820.1
32.5°	769.2	773.6	786.7	795.4	801.2
35°	744.5	750.3	764.9	775.0	782.3
37.5°	716.9	722.7	738.7	751.8	760.5
40°	687.8	695.1	714.0	728.5	741.6
42.5°	658.7	666.0	686.3	708.1	725.6
45°	625.3	635.4	657.3	687.8	708.1
47.5°	591.8	602.0	629.6	667.4	687.8
50°	556.9	568.6	602.0	645.6	667.4
52.5°	520.6	533.7	575.8	622.4	644.2
55°	482.8	498.8	546.7	596.2	619.4
57.5°	443.5	461.0	517.7	570.0	594.7
60°	402.8	424.6	487.1	542.4	568.6
62.5°	360.6	386.8	456.6	513.3	540.9
65°	317.0	347.5	424.6	484.2	511.8
67.5°	271.9	312.6	392.6	455.1	482.8
70°	226.8	274.8	359.2	423.1	450.8
72.5°	184.7	239.9	325.7	385.3	391.2
75°	144.0	205.0	290.8	296.6	286.5
77.5°	107.6	170.1	239.9	213.8	212.3
80°	77.1	136.7	154.1	158.5	160.0
82.5°	50.9	103.2	100.3	103.2	101.8
85°	30.5	50.9	52.3	50.9	48.0
87.5°	14.5	18.9	14.5	13.1	11.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)