

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: P263638

Luminaire Tested: **24CZ-LD5-50SE-RDP-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263638
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-LD5-50SE-RDP-UNV-L93050-W2A1-U-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2954.9 lumens
Efficiency: N/A
Efficacy: 73.0 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

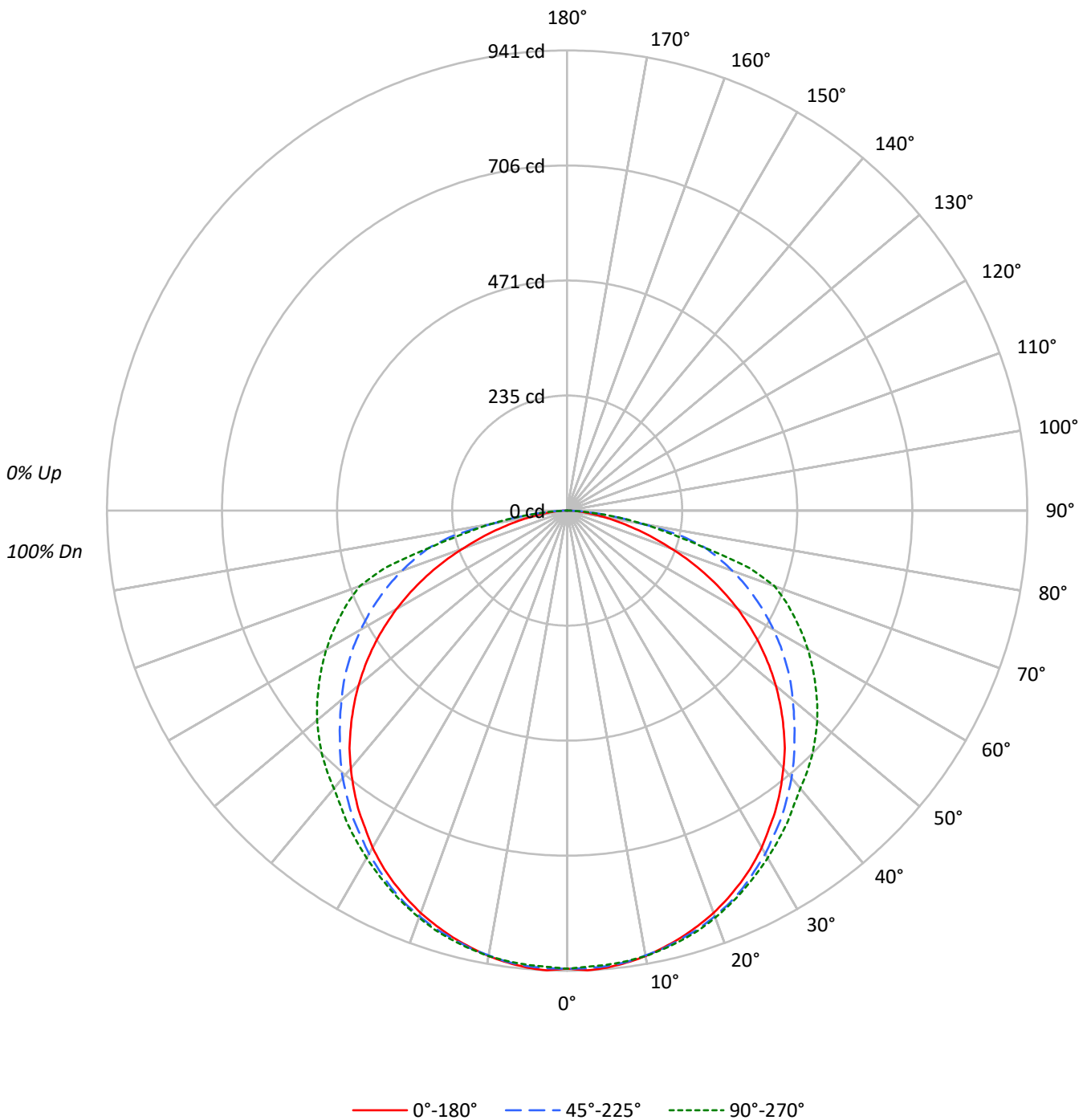
Input Watts (W): 40.465509
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1254	1264	1268
25°	1246	1263	1270
30°	1236	1259	1275
35°	1223	1257	1285
40°	1208	1254	1303
45°	1190	1251	1348
50°	1166	1261	1397
55°	1133	1283	1453
60°	1084	1311	1530
65°	1010	1352	1630
70°	893	1413	1774
75°	749	1512	1489
80°	597	1195	1240
85°	471	809	741



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.8	3.0
10°-20°	255.7	8.7
20°-30°	390.6	13.2
30°-40°	477.5	16.2
40°-50°	511.1	17.3
50°-60°	490.2	16.6
60°-70°	413.9	14.0
70°-80°	264.5	9.0
80°-90°	62.6	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°	735.1	24.9
0°-40°	1212.6	41.0
0°-60°	2213.9	74.9
0°-90°	2954.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2954.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	937	937	937	937	937	
5°	938	932	935	934	932	89
15°	903	900	906	909	909	255
25°	839	838	851	854	855	387
35°	745	751	765	775	783	466
45°	626	636	658	688	708	482
55°	483	499	547	596	620	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°	936.7	936.7	936.7	936.7	936.7
2.5°	941.1	935.3	936.7	936.7	933.8
5°	938.2	932.4	935.3	933.8	932.4
7.5°	932.4	928.0	930.9	930.9	929.5
10°	925.1	920.7	923.6	925.1	925.1
12.5°	914.9	912.0	916.4	916.4	917.8
15°	903.3	900.4	906.2	909.1	909.1
17.5°	890.2	888.7	896.0	897.5	898.9
20°	875.6	874.2	882.9	882.9	885.8
22.5°	858.2	856.7	868.4	868.4	871.3
25°	839.3	837.8	850.9	853.8	855.3
27.5°	818.9	817.5	830.6	834.9	837.8
30°	795.6	795.6	810.2	816.0	820.4
32.5°	769.5	773.8	786.9	795.6	801.5
35°	744.7	750.6	765.1	775.3	782.6
37.5°	717.1	722.9	738.9	752.0	760.7
40°	688.0	695.3	714.2	728.7	741.8
42.5°	658.9	666.2	686.6	708.4	725.8
45°	625.5	635.6	657.5	688.0	708.4
47.5°	592.0	602.2	629.8	667.6	688.0
50°	557.1	568.7	602.2	645.8	667.6
52.5°	520.7	533.8	576.0	622.6	644.4
55°	482.9	498.9	546.9	596.4	619.6
57.5°	443.6	461.1	517.8	570.2	594.9
60°	402.9	424.7	487.3	542.6	568.7
62.5°	360.7	386.9	456.7	513.5	541.1
65°	317.1	347.6	424.7	484.4	512.0
67.5°	272.0	312.7	392.7	455.3	482.9
70°	226.9	274.9	359.3	423.3	450.9
72.5°	184.7	240.0	325.8	385.5	391.3
75°	144.0	205.1	290.9	296.7	286.5
77.5°	107.6	170.2	240.0	213.8	212.4
80°	77.1	136.7	154.2	158.5	160.0
82.5°	50.9	103.3	100.4	103.3	101.8
85°	30.5	50.9	52.4	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)