

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: P276752

Luminaire Tested: **24CZ2-50HE-RDP-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276752
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1808-918-19)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-50HE-RDP-UNV-L83050-W2A1-U-3000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3022.0 lumens
Efficiency: N/A
Efficacy: 84.8 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

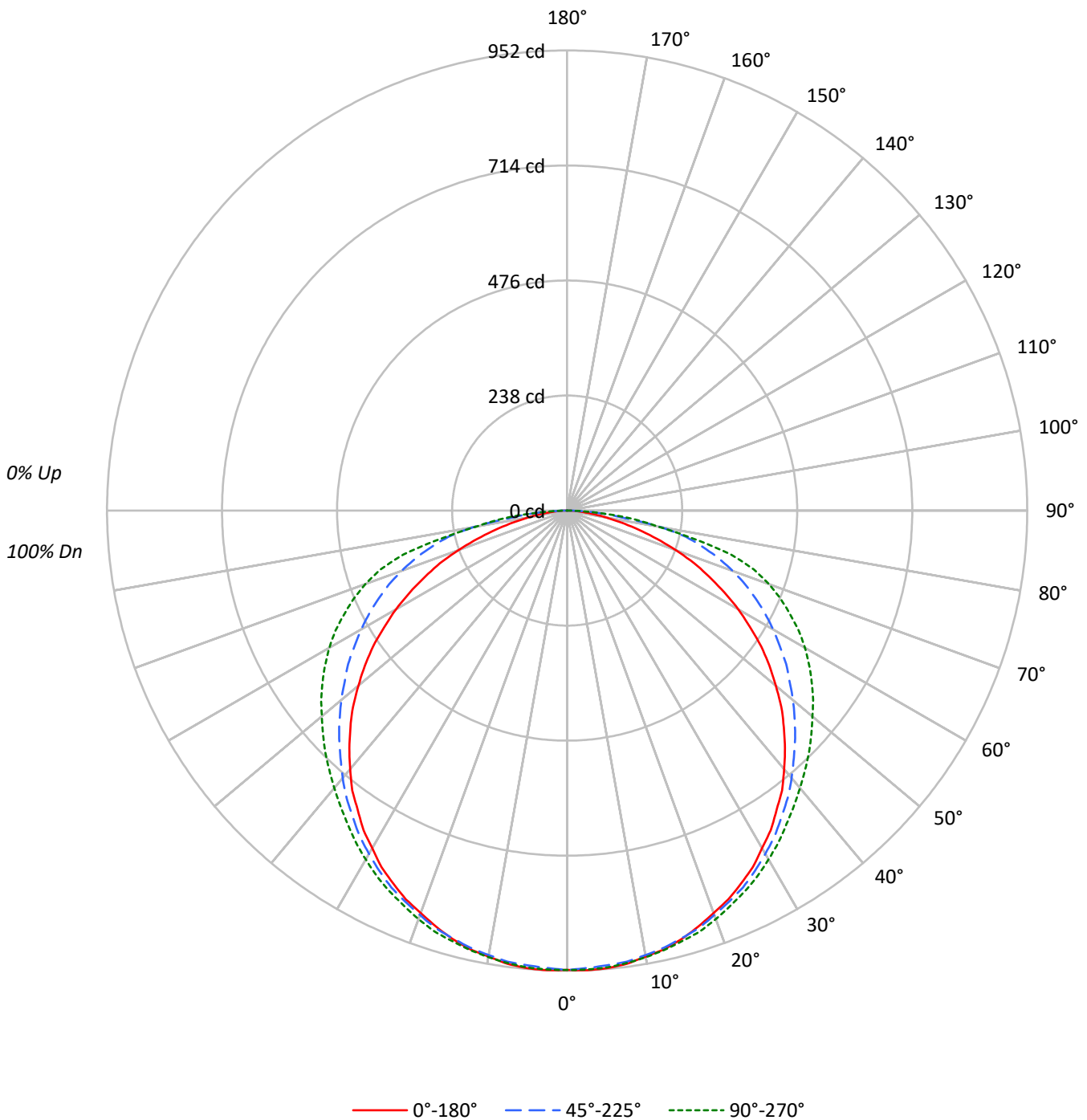
Input Watts (W): 35.640576
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	96	92	96	93	89	92	89	87	88	86	84	82
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67
3	88	77	68	62	86	76	67	61	72	66	60	70	64	59	67	62	58	56
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49	47
5	74	60	51	44	72	59	51	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	45	38	51	44	38	50	43	37	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1279	1279	1279
5°	1284	1275	1281
10°	1280	1276	1282
15°	1278	1276	1284
20°	1268	1275	1288
25°	1264	1277	1291
30°	1253	1274	1295
35°	1241	1271	1300
40°	1227	1269	1316
45°	1207	1269	1346
50°	1180	1277	1387
55°	1150	1297	1449
60°	1101	1323	1529
65°	1031	1370	1622
70°	937	1433	1745
75°	795	1512	1824
80°	627	1522	1475
85°	463	1156	1295



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.1	3.0
10°-20°	259.4	8.6
20°-30°	396.7	13.1
30°-40°	485.0	16.0
40°-50°	516.9	17.1
50°-60°	494.3	16.4
60°-70°	418.7	13.9
70°-80°	281.4	9.3
80°-90°	79.4	2.6
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°	746.3	24.7
0°-40°	1231.4	40.7
0°-60°	2242.5	74.2
0°-90°	3022.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3022.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	950	950	950	950	950	
5°	950	949	944	949	949	90
15°	917	917	916	923	922	259
25°	851	854	860	868	869	392
35°	756	762	774	788	791	473
45°	634	644	667	696	708	489
55°	490	508	553	597	618	437
65°	324	357	430	487	510	321
75°	153	208	291	340	351	164
85°	30	62	75	81	84	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	950.3	950.3	950.3	950.3	950.3
2.5°	951.8	951.8	947.3	950.3	950.3
5°	950.3	948.8	944.3	948.8	948.8
7.5°	945.8	944.3	941.3	945.8	944.3
10°	936.8	936.8	933.8	938.3	938.3
12.5°	929.3	927.8	926.3	932.3	930.8
15°	917.4	917.4	915.9	923.4	921.9
17.5°	902.4	903.9	905.4	911.4	912.9
20°	885.9	888.9	890.4	899.4	899.4
22.5°	870.9	872.4	875.4	884.4	884.4
25°	851.4	854.4	860.4	867.9	869.4
27.5°	831.9	833.4	840.9	851.4	852.9
30°	806.4	810.9	819.9	831.9	833.4
32.5°	783.9	788.4	798.9	810.9	813.9
35°	755.5	761.5	773.5	788.4	791.4
37.5°	730.0	734.5	749.5	766.0	770.5
40°	698.5	707.5	722.5	742.0	749.5
42.5°	667.0	676.0	694.0	719.5	728.5
45°	634.1	644.5	667.0	695.5	707.5
47.5°	601.1	613.1	638.6	671.5	685.0
50°	563.6	578.6	610.1	647.5	662.5
52.5°	527.6	545.6	580.1	622.1	641.5
55°	490.2	508.1	553.1	596.6	617.6
57.5°	448.2	472.2	521.6	571.1	593.6
60°	409.2	431.7	491.7	545.6	568.1
62.5°	367.2	397.2	461.7	518.6	541.1
65°	323.8	356.7	430.2	487.2	509.6
67.5°	284.8	320.8	398.7	455.7	478.2
70°	238.3	283.3	364.2	421.2	443.7
72.5°	194.9	244.3	328.3	383.7	404.7
75°	152.9	208.4	290.8	340.3	350.8
77.5°	113.9	172.4	251.8	272.8	265.3
80°	80.9	137.9	196.4	185.9	190.4
82.5°	52.5	104.9	121.4	137.9	142.4
85°	30.0	61.5	74.9	80.9	83.9
87.5°	13.5	22.5	30.0	30.0	28.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)