

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: P276919

Luminaire Tested: **24CZ2-50HE-RDP-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276919
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-L82765-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: 3019.0 lumens
Efficiency: N/A
Efficacy: 85.2 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

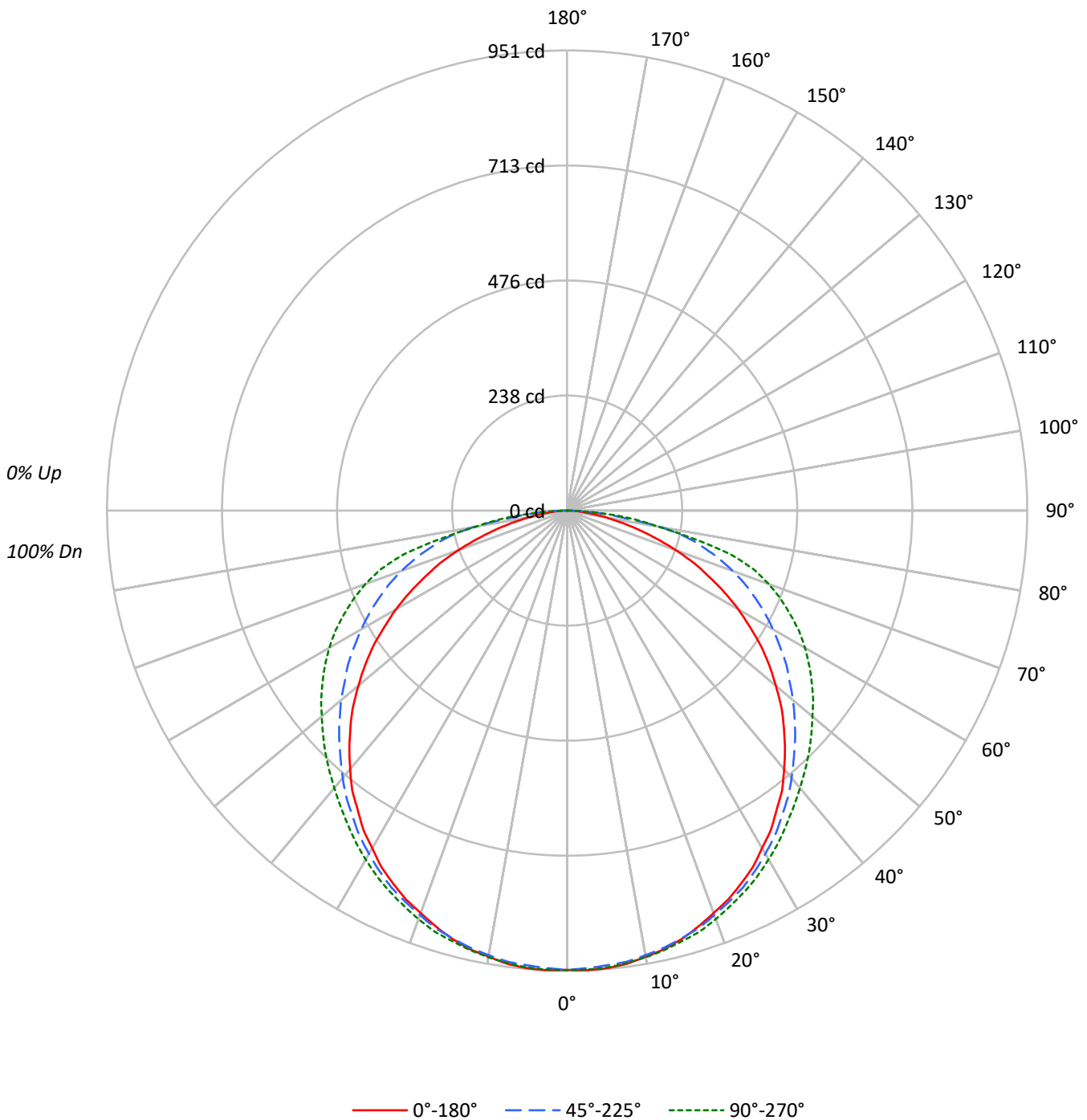
Input Watts (W): 35.433
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1277	1277	1277
5°	1282	1274	1280
10°	1279	1275	1281
15°	1277	1274	1283
20°	1267	1274	1287
25°	1263	1276	1289
30°	1252	1273	1294
35°	1240	1269	1299
40°	1226	1268	1315
45°	1205	1268	1345
50°	1178	1276	1385
55°	1149	1296	1447
60°	1100	1322	1527
65°	1030	1368	1621
70°	937	1432	1744
75°	794	1510	1822
80°	627	1520	1474
85°	462	1156	1295



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.1	3.0
10°-20°	259.2	8.6
20°-30°	396.3	13.1
30°-40°	484.5	16.0
40°-50°	516.4	17.1
50°-60°	493.8	16.4
60°-70°	418.3	13.9
70°-80°	281.1	9.3
80°-90°	79.3	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°	745.6	24.7
0°-40°	1230.1	40.7
0°-60°	2240.3	74.2
0°-90°	3019.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3019.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	949	949	949	949	949	
5°	949	948	943	948	948	90
15°	916	916	915	922	921	258
25°	851	854	860	867	868	392
35°	755	761	773	788	791	473
45°	633	644	666	695	707	489
55°	490	508	553	596	617	436
65°	323	356	430	487	509	321
75°	153	208	290	340	350	164
85°	30	61	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°	949.4	949.4	949.4	949.4	949.4
2.5°	950.9	950.9	946.4	949.4	949.4
5°	949.4	947.9	943.4	947.9	947.9
7.5°	944.9	943.4	940.4	944.9	943.4
10°	935.9	935.9	932.9	937.4	937.4
12.5°	928.4	926.9	925.4	931.4	929.9
15°	916.4	916.4	914.9	922.4	920.9
17.5°	901.5	903.0	904.5	910.4	911.9
20°	885.0	888.0	889.5	898.5	898.5
22.5°	870.0	871.5	874.5	883.5	883.5
25°	850.6	853.5	859.5	867.0	868.5
27.5°	831.1	832.6	840.1	850.6	852.0
30°	805.6	810.1	819.1	831.1	832.6
32.5°	783.2	787.7	798.1	810.1	813.1
35°	754.7	760.7	772.7	787.7	790.7
37.5°	729.3	733.8	748.7	765.2	769.7
40°	697.8	706.8	721.8	741.2	748.7
42.5°	666.4	675.3	693.3	718.8	727.8
45°	633.4	643.9	666.4	694.8	706.8
47.5°	600.5	612.5	637.9	670.9	684.3
50°	563.0	578.0	609.5	646.9	661.9
52.5°	527.1	545.1	579.5	621.4	640.9
55°	489.7	507.6	552.6	596.0	616.9
57.5°	447.7	471.7	521.1	570.5	593.0
60°	408.8	431.3	491.2	545.1	567.5
62.5°	366.9	396.8	461.2	518.1	540.6
65°	323.4	356.4	429.8	486.7	509.1
67.5°	284.5	320.5	398.3	455.2	477.7
70°	238.1	283.0	363.9	420.8	443.2
72.5°	194.7	244.1	327.9	383.3	404.3
75°	152.7	208.1	290.5	339.9	350.4
77.5°	113.8	172.2	251.6	272.5	265.0
80°	80.9	137.8	196.2	185.7	190.2
82.5°	52.4	104.8	121.3	137.8	142.3
85°	29.9	61.4	74.9	80.9	83.9
87.5°	13.5	22.5	29.9	29.9	28.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)